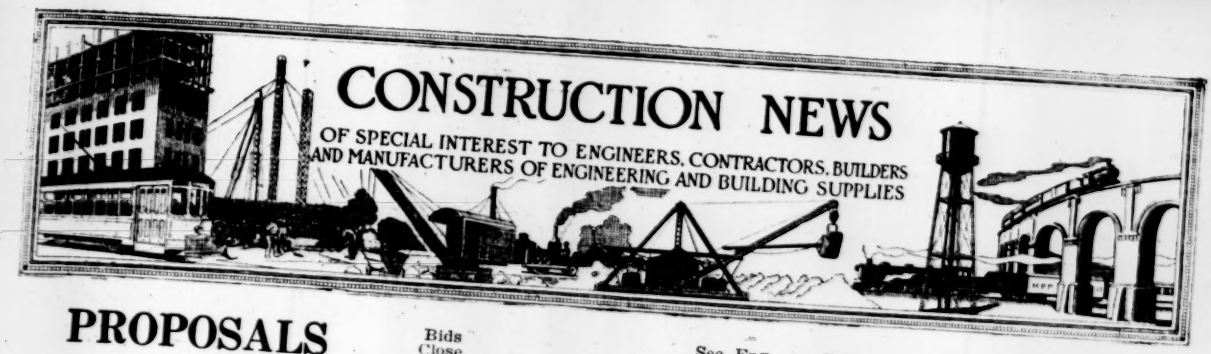
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
July 19	Sarnia, Ont.	
July 19	Pleasant Ridge, Mich. Adv. July 8 and 15.	July 15 July 8
July 19	Wayne, Mich.	
July 20	Stratford, Wis.	July 15
July 21	Newark, Del. Adv. July 15.	July 15 July 15
July 22	Tomohawk, Wis.	
July 23	Akron, O.	July 15
July 30	Galveston, Tex. Adv. July 8 and 15.	June 24 July 8

SEWERS

July 21	Brooklyn, N. Y.	July 15
July 22	Humboldt, Tenn. Adv. July 15.	July 15
July 22	Milwaukee, Wis.	July 15
July 30	St. George, S. I., N. Y.	July 15
Aug. 2	Pontiac, Mich.	July 1

BRIDGES

July 18	Oglethorpe, Ga.	July 15
July 19	Spangler, Pa.	July 15
July 20	Milledgeville, Ga.	July 15
July 20	Danielsville, Ga.	July 8
July 21	Warrenton, Ga.	July 15
July 21	Frederica, Del. Adv. July 1 to 15.	July 8 July 1
July 21	Newark, O.	July 15
July 22	Camilla, Ga.	July 8
July 28	Vintondale, Pa.	July 15
July 30	Banff, Alta.	July 8
Aug. 2	Florence, Ariz. Adv. July 8 and 15.	July 15
Aug. 3	Morgan, Ga.	July 15
Aug. 4	Dubolstown, Pa.	July 15
Aug. 20	Bristol, Conn.	July 15

STREETS AND ROADS

July 17	Berkeley Springs, W. Va.	July 8
July 19	Okeechobee, Fla. Adv. July 8 and 15.	July 1
July 19	Silver Lake, O.	July 1
July 19	St. Clairsville, O.	July 8
July 19	Toronto, O.	July 8
July 19	Cocoa, Fla.	July 8
July 19	Pittsburgh, Pa.	July 8
July 19	Royal Oak, Mich.	July 15
July 19	Blairsville, Ga.	July 15
July 20	Michigan	July 15
July 20	Monroe, Mich.	July 15
July 20	Moundsville, W. Va.	July 15
July 20	Storm Lake, Ia.	July 15
July 20	Mt. Pleasant, Ia.	July 15
July 20	St. Dorothea, Que.	July 15
July 20	Indiana	July 15
July 20	Moundsville, W. Va.	July 15
July 20	Berkeley Springs, W. Va.	July 1
July 20	North Carolina	July 8
July 20	New York, N. Y.	July 8
July 21	New York, N. Y.	July 15
July 21	Brooklyn, N. Y.	July 15
July 21	Chatham, Ont.	July 15
July 21	Springfield, Ill. Adv. July 8 and 15.	July 15 July 8
July 21	Ashton, Ill. Adv. July 15.	July 15
July 21	Dubuque, Ia.	July 15
July 22	Washington, D. C. Adv. July 15.	July 15
July 22	North Adams, Mass. Adv. July 15.	July 15
July 22	New Brunswick, N. J.	July 8
July 23	Garden City, Kan.	June 24
July 23	Missouri	July 8
July 23	Spencer, W. Va.	July 15
July 24	Ironton, O.	July 15
July 24	Crowley, La. Adv. July 8 and 15.	July 15 July 1
July 24	Indiana	July 15
July 25	Ohio	July 1

Bids Close		See Eng. News-Record
July 25	Swan River, Man.	
July 26	Missouri	July 15
July 26	Indiana	July 15
July 27	Ft. Madison, Ia. Adv. July 15.	July 15 July 15
July 27	Michigan	
July 27	St. Joseph, Mich.	July 15
July 28	Indiana	July 15
July 28	Griffin, Ga.	July 15
July 28	Missouri	July 15
July 28	Freehold, N. J.	July 15
July 28	Portland Me.	July 8
July 29	Bolivar Mo.	July 15
July 29	Lake City, Mich.	July 15
July 30	Missouri	July 15
July 30	Clearfield, Pa.	July 15
July 30	Davidson, Sask.	July 15
July 31	Columbus Ind.	July 8
Aug. 3	Grosse Pointe Park (Detroit P. O.), Mich.	July 15
Aug. 5	Ft. Myers, Fla.	July 15
Aug. 14	Opelousa, La. Adv. July 15.	July 8 July 15

EXCAVATION AND DREDGING

July 19	Cape Girardeau, Mo.	July 8
July 19	Des Moines, Ia.	July 15
July 20	Rensselaer, Ind.	July 8
July 20	Mason City, Ia.	July 8
July 20	Jonesboro Ark.	July 8
July 21	Clarinda Ia.	July 15
July 21	Marcy, N. Y.	July 15
July 27	Le Mars, Ia.	July 8
Aug. 4	Marengo, Ia.	July 8

INDUSTRIAL WORKS

July 19	Brooklyn, N. Y.	July 8
July 25	Fargo, N. D.	July 8
Aug. 1	Cambridge, Mass.	July 8
Sept. 1	Hutchinson, Kan.	Feb. 19

BUILDINGS

July 18	Youngstown, O.	July 15
July 19	Montreal, Que.	July 8
July 19	Marble, Minn.	July 8
July 19	Pembroke, Ont.	July 8
July 19	Emporia, Kan.	July 15
July 19	Ipswich, S. D.	July 8
July 19	Liberal, Kan.	July 8
July 20	Cleveland, O.	July 15
July 20	Roselle Park (Elizabeth P. O.), N. J.	July 15
July 20	Lake Park, Minn.	July 1
July 23	North Sydney N. S.	July 8
July 24	Wallingford, Conn.	July 15
July 25	Liberty Center, Ia.	July 15
July 26	Lankin, N. D.	June 24
July 26	Jeannette Pa.	July 8
July 27	Toms River, N. J. Adv. July 15.	July 15 July 15
July 29	Halifax, N. S.	July 15
July 30	Oakes, N. D.	July 15
July 31	Miniota, Man.	July 8
Aug. 1	Jamestown, N. D.	July 15
Aug. 1	Anderson, S. C.	July 8
Aug. 1	Baltimore, Md.	July 15
Aug. 2	Salina, Kan.	July 8
Aug. 2	Media, Pa.	June 17
Aug. 3	McCallsburg, Ia.	July 8
Aug. 9	Oberon, N. D.	July 15
Aug. 10	Chicago Ill.	July 8
Aug. 16	Sioux City, Ia.	July 15 June 17

FEDERAL GOVERNMENT WORK

July 19	Repairing Breakwater and Placing Rip Rap—Cleveland, O. Adv. July 1 to 15.	July 1
July 21	Pier—Spec. 4165—Guantanamo, Cuba Adv. July 8 and 15.	July 8
July 21	Sewers—Wash. D. C. Adv. July 8 and 15.	July 8
July 21	Railroad—Ogden, Utah.	July 8
July 21	Gasoline Storage Shed—New York, N. Y.	July 15
July 22	Sewage Ejector — Del Rio, Tex.	July 15
July 22	Grading—Wash., D. C. Adv. July 15.	July 15
July 23	Remodeling Post Office — Omaha, Neb.	July 15

Bids Close		See Eng. News-Record
July 24	Dredging — New York, N. Y.	June 24
July 27	Surface Drainage System, etc.—Galveston, Tex.	July 8
July 28	Remodeling Post Office and Customhouse—Fall River, Mass.	July 8
July 28	Electric Traveling Cranes—Spec. 4239—Wash., D. C.	July 15
July 28	Extending Workroom—Chattanooga, Tenn.	July 8
July 29	Remodeling Customhouse and Post Office—Astoria, Ore.	July 8
July 30	Widening and Deepening — New Orleans, La.	July 1
July 30	Remodeling Post Office—Battle Creek, Mich.	July 8
July 30	Superstructure — Wash., D. C. Adv. July 8 and 15.	July 8
Aug. 4	Remodeling Post Office — Augusta, Me.	July 15
Aug. 4	Underground Electric Distributing System — Spec. 4240—Hampton Roads, Va. Adv. July 15.	July 15
Aug. 11	Temporary Storehouse — Spec. 4229—Pearl Harbor, H. T.	July 8
Aug. 16	Diversion Dam—Florence, Ariz. Adv. July 15.	July 15
Aug. 24	Canal—Caldwell, Idaho.	July 15

MISCELLANEOUS

July 20	Terminal Freighthouse — New York, N. Y. Adv. June 24 to July 15.	June 24
July 20	Conduits, etc. — Detroit, Mich.	July 8
July 20	Pumps—Summit, N. J. Adv. July 15.	July 15
July 20	Breakwater — Cape Bald, N. B.	July 8
July 23	Steam Pump — Trenton, N. J. Adv. July 8 and 15.	July 8
July 25	Incinerator—Chatham, Ont.	July 15
July 29	Dam—Inlet, N. Y. Adv. July 8 and 15.	July 8
Aug. 7	Pier and Transit Sheds — Vancouver, B. C.	July 1

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Cambridge—City receives bids about Aug. 2, building reservoir. About $100,000. Johnson & Benham, 150 Nassau St., New York City, engrs.

Pa., Ford City—Douglass & McKnight, engrs., Columbia Bank Bldg., Pittsburgh, rejected bids June 29, building reservoir for city. Work will be readvertised. Noted June 24.

Pa., Pittsburgh—City Council passed ordinance to lay water mains in various streets. About $30,000. E. J. Martin, clk.

Gas Mains—Charlottesville, Va.—See "Streets and Roads."

Tenn., Nashville—City plans to strengthen and repair reservoir. About $15,000. W. W. Southgate, city engr.

O., Dayton—City authorized issue of $200,000 bonds to build 10,000,000 gal. reservoir on west side and 1,200 ft. 4-10 in. c.i. pipe. Work involves 4,700 cu.yd. rein.-con. and 10,000 cu.yd. earth excav. G. Baker, city engr.

O., Dayton—Comrs. Montgomery Co. plan to lay 30,000 ft. 4-8 in. c.i. water mains in Mt. Auburn Dist., involving 12,000 cu.yd. earth excav. About $200,000. K. B. Allen, 606 Union Bank Bldg., engr.

O., Willoughby—Village election Aug. 10 to vote on $150,000 bonds to build reservoir and waterworks system. M. Knowles, 716 Hippodrome Bldg., Cleveland, engr. Noted April 1.

Waterworks (Continued)

Ind., Ft. Wayne—See "Industrial Works."

Mich., St. Clair—City having plans prepared for furnishing and installing 300 hp. engine, 200 kva. direct connected generator, water meter, piping, etc., also 6 and 10 in. watermains, in Orchard and 9th Sts., Town Line, Riverside and Clinton Aves. About $57,755. G. C. Champe, Toledo, O., engr.

Mo., Moberly—City plans to build pumping and filtration plants and reservoir. About $250,000. Fuller & Beard, Chemical Bldg., St. Louis, engrs.

N. B., Fredericton—Town soon receives bids extending water works system, involving 5,600 ft. 6-10 in. pipe. About $25,000. E. McKnight, town engr.

N. B., St. Andrews—Town Council opens bids about Aug. 1, building 4 mi. water mains from here to Chamcook Lake, involving 20,000 ft. 24 in. pipe, 100 cu.yd. rein.-con., 21,000 cu.yd. earth and 7,000 cu.yd. rock excav. About $110,000. D. W. Maxwell, St. Stephen, engr.

N. B., St. John—City plans to build extension to water works system. About $547,000. E. Hare, city engr.

Ont., Chatham—City having plans prepared by E. A. James Co., Ltd., engrs., 36 Toronto St., Toronto, for altering brick pumphouse and installing new mechanical filters, also electrical driven centrifugal pumps will probably be installed. About $50,000.

Ont., Scarboro—Township plans to build branch water main and house services in connection with new waterworks system, involving ¾ and ¾ in. w.i. pipe, stop cocks, valve boxes, etc. About $200,000. E. A. James Co., Ltd., 36 Toronto St., Toronto, engrs.

Ont., Wingham—Town voted $25,000 to extend water works system.

BIDS DESIRED

Del., Newark—Until July 21, by Town Council, improving water works system, to include concrete foundations for 40 ft. diamete steel stand pipe, 6,300 ft. 10 in. c.i. pipe line and concrete receiving basin. E. B. Frazer, pres.; advertised in this issue.

Mich., Wayne—Until July 19, by F. L. Forman, village clk., furnishing labor and material building filtration plant of 1,000,000 gal. daily capacity, coagulating basin, intake, drain pipes and motor driven centrifugal pumps of same capacity. Pipe lines, and plant and equipment to be let under separate contracts.

Wis., Stratford—Until July 20, by F. J. Curtin, village clk., building 18 x 30 ft. brick pumping station and well-reservoir, 46 ft deep, 20 ft. in diameter, also furnishing 250 gal. power pump and 20 hp. gasoline-kerosene engine. W. G. Kirchoffer, 31 Vroman Blk., Madison, engr. Noted Jan. 15.

Wis., Tomahawk—Until July 22, by J. Bell, city clk., furnishing and building 60,000 gal. steel tank on 100 ft. tower. W. G. Kirchoffer, 31 Vroman Blk., Madison, engr. Noted Jan. 15.

Ont., Hawkesbury—Town receiving bids building waterworks system. About $19,000.

Ont., Sarnia—Until July 19, by F. W. Thorold Co., Ltd., engr., 167 Avenue Rd., Toronto, for Contr. A, to include supplying of 12,000 ft. 24 in. and 700 ft. 18 in. c.i. pipe and specials; Contr. B, 18 and 24 in. gate valves; Contr. C, special c.i. flanges; Contr. E, laying 7,100 ft. 24 in. pipe; Contr. F, 4,950 ft. 24 in. and 700 ft. 18 in. pipe; Contr. G, supplying and erecting two 300 hp. induction motors; Contr. H, supplying and erecting 5,000 ton concrete coal plant; Contr. J, building new roof on Point Edward pumphouse. About $100,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract laying 8-20 in. water mains in North, Commercial and Portland Sts., to C. and R. Constr. Co., $111,859. Noted July 1.

★**N. J., Bordentown**—F. H. Bent, state archt., 142 West State St., Trenton, let contract building water supply system for Industrial School here, to G. Feifer, 209 Market St., Camden, $22,500.

★**Tenn., Nashville**—City let contract building two 20,000,000 gal. high service pumps and two 20,000,000 gal. low service pumps, to Worthington Pump Co., $87,750 and $93,200 respectively. Noted June 3 under "Miscellaneous."

Mich., Dearborn—City received bids July 7, furnishing and laying 7,629 ft. 6-18 in. ci.i. pipe, from T. C. Brooks & Son, Jackson, $34,113; J. A. McDace, 920 Fairview Ave., Detroit, $34,836; J. Palmer, Dearborn, $37,439. Noted June 24.

Mich., Pontiac—City received bids laying 5,870 ft. 48 in. lock bar steel pipe for filtration plant, from W. E. Hayes, East Jefferson and Bellevue Aves., Detroit, $53,912; Bartling & Holmes, Alma, $77,283; Lennane & McUlvenna, 1205 Book Bldg., Detroit, $90,300. Noted July 1 under "Miscellaneous."

★**Ill., Rockford**—City let contract building 197 x 215 ft. concrete reservoir, on Stanley and Cedar Sts., to Security Building Co., 18th St., $122,732.

★**Okla., Miami**—City let contract building 1,000,000 gal. reservoir and extensions to waterworks system, to A. R. Young Constr. Co., Little Rock, Ark. About $35,000 and $133,000 respectively. Noted April 15.

Sewers

PROPOSED WORK

Mass., Northbridge—Bd. Sewer Comr. plans to build sewerage system and pumping station. About $142,000. C. W. Lasell, chn. McClintock & Woodfall, 15 Court Sq., Boston, engrs.

Va., Charlottesville—See "Streets and Roads."

W. Va., Wheeling—City plans to install complete sewerage systems in Pleasanton, Crator and Park View. About $100,000. H. G. Conrad, city engr.

Tenn., Humboldt—City will sell $70,000 bonds July 22, to build sewers in various streets. R. H. McNeely, mayor; advertised in this issue.

O., Lima—City having preliminary plans prepared by Fuller & McClintock, engrs., 170 Bway., New York City, building sewage disposal plant, etc. About $1,000,000.

Ind., Ft. Wayne—See "Industrial Works".

Mich., Detroit—City plans to build Lateral Sewer 3,295 on Cardoni, Hawthorne, Swift and Nevada Sts., involving 2,410 ft. 12-42 in. vitr. pipe, etc.; 3,296, Cardoni, Russel, Swift and Nevada Sts., 1,665 ft. 12-24 in. pipe; 3,297, Russell, Hull and Nevada Sts. and Six Mile Rd., 2,384 ft. 12-24 in. pipe; 3,298, Hull, Riopelle and Nevada Sts. and Six Mile Rd., 5,348 ft. 12-33 in. pipe; 3,299, Riopelle, Marx and Nevada Sts. and Six Mile Rd., 5,397 ft. 12-33 in. pipe; 3,301, Meadowbrook and Marsh Sts. Detroit River and alley east of Montclair St., 1,526 ft. 12-15 in. pipe; 3,302, Vinton, Raymond, Georgia and Edgewood Sts., 995 ft. 12-15 in. pipe; 3,303, 52nd, 51st, Conrad Sts. and point 109 ft. north of Conrad St., 109 ft. 12 in. pipe; 3,304, Fisher, Crane, Georgia and Marcus Sts., 1,080 ft. 12-15 in. pipe; 3,305, Mather, Central, Radcliffe and Vernor Sts., 670 ft. 12 in. pipe. C. W. Hubbell, city engr.

Minn., Freeport—City plans to build 3 mi. sanitary sewers and install Imhoff tanks and sludge beds. About $30,000. Bradley Eng. Co., St. Cloud, engrs.

Okla., Oklahoma—City having preliminary plans prepared for sewage disposal plant, etc. About $1,000,000. Fuller & McClintock, 170 Bway., New York City, engrs.

BIDS DESIRED

N. Y., Brooklyn—Until July 21, by E. Riegelmann, boro. pres., furnishing labor and material building sewers in Ocean Parkway, East Side, between Ave. I and Long Island R.R., Ave. I from Ocean Parkway to end of existing sewer between Ocean Parkway and East 7th St., East 7th St. from sewer summit to point about 325 ft. north of Ave. N to Ave. M., repairing pipe sewer in Greene Ave. at Washington Ave.

N. Y., S. I., St. George—Until July 30 by C. D. Van Name, pres. Richmond Boro., building temporary sanitary sewers in Seaside Blvd. from Sea Ave. to point 3,000 ft. west of Sand Lane and from this point to extension of Cromwell Ave., Cromwell Ave. and southerly extension from existing sewer about 2,120 ft. north of Southfield Beach R.R. to point about 135 ft. south of railroad, outlet sewer in extension of Cromwell Ave. from point 185 ft. north of Southfield Beach R.R. into New York Bay to pierhead line.

Tenn., Humboldt—Until July 22, by city, furnishing and laying 9 mi. 6-15 in. vitr. sewer pipe with necessary manholes. J. H. Weatherford, Porter Bldg., Memphis, consult. engr.; advertised in this issue.

Wis., Milwaukee—Until July 22, by Sewerage Com., building 2 syphons under Milwaukee River, 860 ft. 18 in. c.i. pipe, with 1 valve chamber at Bradford Ave. and 595 ft. 30 in c.i. pipe with 2 valve chambers, at Auer Ave. About $50,000. T. C. Hatton, city engr. Noted July 1.

Que., Montreal—City receiving bids building underground conduits, cost $20,000; Cote St. Antoine sewerage system, $1,035, Colborne, $21,490, and Harold $14,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building sewers in Market and Babcock Sts., to A. Cefalo, $23,333 and $10,218 respectively; Bridge and North Anderson Sts., to W. Barrett, $8,263. Noted July 8.

★**N. J., Newark**—City let contract building main sewer and branches in Roanoke Ave., to Harrison & Craig, 31 Clinton St., $117,687.

Pa., Pittsburgh—City received bids July 21, building sewers in Uptegraff St., involving 8,691 ft. 8-20 in. terra cotta pipe, etc., from J. E. Born, Union Arcade, $25,165; M. Ott & Co., 416 Warrington Ave., $34,239; McDonough & O'Toole, Pittsburgh, $36,736.

Mich., Detroit—City received bids July 6, furnishing labor and material building sewer in (a) Springle Ave., (b) Swift Ave., (c) Puritan Ave., (d) Oakland Ave., (e) John R. St., from Jeynes & Affled, 1208 Ford Bldg., (a) $59,940, (c) $67,700; N. Mancini, 580 Concord Ave., (a) $57,750; Walker & Teetart Co., 919 Majestic Bldg., (a) $61,500; J. Porath, 23 McGraw Bldg., (b) $66,550, (c) $65,912, (d) $54,840, (e) $57,957; W. Blanck & Co., 827 Ford Bldg., (b) $73,125, (e) $57,145; E. S. McReynolds, 396 Harper Ave., (b) $74,388; Lennane & McIlvenna, 1205 Book Bldg., (d) $80,395, (e) $62,205. Noted July 1.

★**Mich., Detroit**—City let contract furnishing labor and material building brick, concrete, vitr. or concrete segmental block sewer in Linwood Ave., Sect. 4, involving 2,587 ft. 2 ft. 9 in.-5 ft. 3 in. cylinder, to Jeynes & Affield, 1208 Ford Bldg., $68,700; Alter Rd. Pub. Sewer (uncompleted portion), 1,755 ft. 5 ft. 6 in. cylinder, Laterals 3,114 and 3,173, to W. Blanck & Co., 827 Ford Bldg., $49,624, $3,996 and $26,350 respectively. Noted July 1.

Wis., Waterloo—Village received bids July 1, building storm sewers in various streets, from Gray-Robinson Constr. Co., Manitowoc, $62,308.

★**Ia., Ft. Madison**—City let contract furnishing and laying 26 mi. 8-24 in. sanitary sewer pipe, also building pumping stations, etc., to Natl. Constr. Co., Davenport, $487,248. Noted May 13.

★**N. D., Grafton**—City let contract building sewers and watermains in 25 blocks, to J. O'Connor Co., Fargo. About $40,000.

Bridges

PROPOSED WORK

Me., Orono—Town had plans prepared for bridge over Penobscot River. About $75,000. A. Sprague, Orono, engr.

Mass., Indian Orchard—City of Springfield and Town of Ludlow plan to build concrete and steel bridge over Chicopee River between here and Ludlow. About $30,000. E. W. Wiggin, 113 Church St., New Haven, Conn., engr.

Minn., Grand Rapids—Itasca Co. rejected bids May 3, building Bridge 3,303, over Prairie River. Bonds not sold; project postponed until November. H. A. LeSueur, Grand Rapids, engr. Noted April 8.

Neb., Omaha—City, Union Pacific R.R., Chicago, Burlington & Quincy RR., Chicago & Northwestern Ry., and Missouri Pacific RR. plan to build 4,200 ft. viaduct, 40 ft. wide, over tracks from 32nd and Grover Sts. to 33rd and I Sts. About $1,500,000. J. C. Bruce, city engr.

Mo., St. Louis—City and St. Louis Terminal R.R. plan to build rein.-con. bridge over St. Louis Terminal R.R. tracks at Bircher Ave. and Penrose Park, cost $259,400; Kingshighway and Penrose Park, $266,000, also concrete viaduct on Goodfellow Ave., $77,350. L. A. Bowen, City Hall, engr. Noted May 27 under "Miscellaneous."

Mo., St. Louis—City and Wabash R.R., Ry. Exch. Bldg., plan to build rein.-con. viaduct over tracks, on Delmar Ave. About $562,786. L. R. Bowen, City Hall, engr. Noted May 27.

BIDS DESIRED

Conn. Bristol—Until Aug. 20, by C. W. Buell, city engr., 175 Main St., building 50 ft. rein.-con. bridge, 50 ft. wide, on Boulevard, involving 200 cu.yd. concrete, etc. Noted June 3.

Pa., Duboistown—Until Aug. 4, by L. O. Bower, clk. Bd. Comrs. Lycoming Co. (Williamsport), building 1,500 ft. rein.-con. bridge (alternative, steel riveted truss bridge) 25 ft. wide, over Susquehanna River between High St., here, and Arch St., Newberry. If concrete is used, bridge will have 13 open spandrel arches of 98 ft. clear span; if steel, seven 200 ft. spans on rein.-con. piers. Bonds for $500,000 voted for project. M. C. Krause, co. engr.

Bridges (Continued)

Pa., Spangler—Until July 19, by H. T. Jones, controller Cambria Co. (Ebensburg), building 50 ft. rein.-con. bridge, 21 ft. wide, over Susquehanna River, here. About $25,000. H. F. Dorr, Trust Bldg., Ebensburg, engr.

Pa., Vintondale—Until July 28, by H. T. Jones, contr'ler Cambria Co. (Ebensburg), building 48 ft. rein.-con. arch highway bridge, 24 ft. wide, over Blacklick Creek, here. About $30,000. H. F. Dorr, Trust Bldg., Ebenburg, engr.

Ga., Danielsville—Until July 20, by Bd. Comrs. Rds. and Revenues, Madison Co., building 4 bridges on Danielsville-Athens Rd., Bridge 1 over South Fork Broad River, one 60 ft. steel span with 224 lin.ft. rein.-con. approaches, involving 277.6 cu.yd. Class "A" and 73.2 cu.yd. Class "B" concrete, 29,487 lb. reinforcing and 17,600 lb. structural steel; Bridge 2—Double Branches, two 28 ft. concrete girder spans, 54.5 cu.yd. Class "A" and 48.6 cu.yd. Class "B" concrete and 14,532 lb. reinforcing steel; Bridge 3 over Brush Creek, eight 16 ft. concrete slab spans, 149.2 cu.yd. Class "A" concrete and 14,925 lb. reinforcing steel; Bridge 4 over Biggers Creek, three 28 ft. concrete girder spans, 104.7 cu.yd. Class "A" concrete and 21,138 lb. reinforcing steel.

Ga., Morgan—Until Aug. 3, by Bd. Comrs. Roads and Revenues, Calhoun Co., building three 60 ft., one 40 ft. and one 160 ft. rein.-con. bridges, and one 10 ft. span rein.-con. slab top culvert, over Pachitla Creek on Morgan-Edison Rd., Route 27, Federal Aid Project 171, involving 501.55 cu.yd. Class "A," 262.40 cu.yd. Class "B" and 22.04 cu. yd. Class "C" concrete, 59,924 lb. reinforcing steel, 1,130 lin.ft. 14 x 14 in. reinforcing concrete pile driven, 340 lin.ft. wood piling driven, 675.50 cu.yd. Kentucky rock asphalt surfacing and 250 cu.yd. wet and dry excav.

O., Newark—Until July 21, by Comrs. Licking Co. building superstructure for Bridge 6, on Road 153, Lima Twp. to have two 35 ft. rein. con. deck grinders, 16 ft. clear roadway, involving 71 cu.yd. 1:2:4 concrete, 13,182 lb. reinforcing steel and 153 lin.ft. type G railing; substructure—removing existing structure and building 2 new abutments and pier, 40.9 cu.yd. 1:3:6 and 89.3 cu.yd. 1:2:4 concrete, 2,416 lb. reinforcing steel, 400 cu.yd. dry and 180 cu.yd. wet excav. F. S. Wilson, aud.

Ariz., Florence—Until Aug. 2, by Pinal Co. Highway Comn., building two 140 ft. clear span rein.-con. bridges, on Ray-Kelvin Highway, involving 1,300 cu.yd. concrete and 78,000 lb. reinforcing steel. E. G. Dentzer, secy.; advertised in this issue. Noted July 1.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building bridge on Ashland St., to Boston Bridge Wks., 47 Winter St., $54,000.

★**Rhode Island**—State Bd. Pub. Rds., State House, Providence, let contract building Bridge 146, known as Centerdale Bridge, North Providence and Johnston, also Bridge 145, known as Centerdale Sluiceway, North Providence, to Bowerman Bros., 630 Grosvenor Bldg., Providence, $36,226 and $12,750 respectively; Bridge 20, known as Wakefield Bridge, South Kingstown, to G. F. Austin, East Greenwich, $14,871. Noted June 24.

★**Conn., Meriden**—International Silver Co., 48 State St., let contract building 300 ft. rein.-con. coal trestle and bunker, to J. H. Grozier Co., 721 Main St., Hartford; cost plus percentage basis.

★**Pa., Williamsport**—Lycoming Co. let contracts building Shoemaker and Upper Hughesville Bridges, to O'Dell Bros. & Co., Hughesville, $39,275 and $33,440 respectively. Noted June 24.

★**W. Va., Madison**—Boone Co. let contract building superstructure for bridge over Coal River, near Mordue, involving 60.5 cu.yd. concrete, 576 cu.yd. Ashlar masonry and 4,760 lb. steel, to Stand Eng. Co., Toledo, O., $13,387; substructure for above, involving 576 cu.yd. concrete, 230 lb. steel for above, and 311 cu.yd. earth approach and fill, to Shaid Contg. Co., Elkins, $14,953.

★**Mich., Detroit**—City let contract furnishing and erecting steel for 4 span viaduct over Michigan Central R.R. tracks, on Vermont St., to Wisconsin Bridge & Iron Co., 1362 Penobscot Bldg., $27,850. Concrete foundation work to be done by Michigan Central R.R. Noted June 3.

★**Mich., St. Clair**—City, township and China Twp. let contract building three span rein.-con. highway bridge, 200 ft. long, 20 ft. wide, over Pine River, near here, to R. F. Hanneman, 454 Ferdinand Ave., Detroit. About $32,000. Noted May 13.

★**Mo., Kansas City**—Missouri Pacific R.R., Ry. Exch. Bldg., St. Louis, let contract repairing steel work on 4 truss spans of Kaw River Bridge, 28 ft. wide, to Frankman Bros. Bridge & Constr. Co., 911 Metropolitan Life Bldg., Minneapolis, Minn. About $25,000.

★**Mo., St. Louis**—City let contract building 500 ft. unloading bridge for municipal wharf equipped with electric hoist and carriage for transferring miscellaneous freight, to Lakeside Steel Co., North Milwaukee, Wis. About $50,000.

Tex., Cooper—Delta Co. received only bid building rein.-con. and steel bridges on Highway 39, from Austin Bros. Bridge Co., 1815 Coombs St., Dallas, $49,776; including 10% for engineering and contingencies. Work involves 175 cu.yd. dry and 130 cu-yd. wet excav., 468.5 cu.yd. Class "A" and 130.7 cu.yd. Class "B" concrete, 47,459 lb. reinforcing and 156,953 lb. structural steel.

Tex., Paris—Lamar Co. received bids building (1) concrete and steel bridges on Highway 5, involving 68 cu.yd. structural excav., 302.6 cu.yd. Class "A" and 364.4 cu.yd. Class "B" concrete, 68,400 lb. structural and 45,765 lb. reinforcing steel, (2) rein.-con. and steel bridges on Highway 19, 34 cu.yd. structural excav., 79.1 cu.yd. Class "A" and 390.7 cu.yd. Class "B" concrete, 66,800 lb. structural and 17,958 lb. reinforcing steel, from Austin Bros. Bridge Co., 1815 Coombs St., Dallas, (1) $32,630, (2) $23,543; Midland Bridge Co., Shap Channel, Fidelity St., Houston, (1) $38,139, (2) $27,961.

★**Ontario**—Canadian Natl. Ry., Royal Bank Bldg., Toronto, let contract building 16 concrete culverts and bridges, to Dominion Constr. Co., 14 Wellington St., E., Toronto. About $150,000. Noted May 13.

Streets and Roads

PROPOSED WORK

New York—F. S. Greene, state highway comr., Capitol, Albany, received no bids July 2, improving roads in Dutchess, Albany, Rensselaer and Oneida Counties. Noted June 24.

Pa., Ebensburg—Comrs. Cambria Co. plan to build 12 mi. Sproul Rd., 18-21 ft. wide, vitr. brick and concrete. About $460,000.

Pa., Pittsburgh—City Council passed ordinance to grade to width of 40 ft., also pave and curb Fordham St. from Pioneer Ave. to point 330 ft. southeast of Queensboro Ave. About $60,000. E. J. Martin, clk.

Pa., Scranton—City passed ordinance to grade, pave and curb Penn Ave. from New York to Sunset Sts., North 9th Ave. from West Lackawanna Ave. to West Linden St. and Birch St. from Cedar to South Washington Aves. Cost $71,495, $12,032 and $27,898 respectively. W. P. Huester, clk.

Va., Charlottesville—City voted $953,000 bonds to pave streets, also build sewers, water and gas mains.

W. Va., Clarksburg—Harrison Co. defeated $4,000,000 bond issue for improving highways. Noted June 3.

W. Va., Welch—Comrs. McDowell Co. soon receive bids paving 2½ mi. Welch-Davy Rd., 16 ft. wide, Kentucky rock asphalt. About $50,000. W. J. McClaren, co. engr.

W. Va., Wheeling—C. O. Ephlin, city mgr., soon receives bids paving 1,500 ft. 4th, 5th, 6th, 7th and Centre Sts., 30 ft. wide, vitr. brick. About $30,000. H. A. Conrad, city engr.

Tenn., Murfreesboro—Rutherford Co. sold $200,000 bonds to build state and federal highways.

Mich., Detroit—City plans to grade, shape and pave with sheet asphalt on 8 in. concrete foundation, Berea or Medina curbstone, Inglis Ave. from Ferndale to Woodmere Aves., 26 ft. wide, cost $49,970; grade and pave with 1 course concrete and 2 x 6 in. retaining plank, alley between Elmwood, Ellery, Benson and Heidelberg Sts., 18 ft. wide, $5,840, alley between Maxwell, Gratiot, Seminole and Medbury Sts., 18 ft. wide, $7,790, alley between Belvidere, McClellan, Mack and Sylvster Aves., 18 ft. wide, $6,600, and alley between Goodwin, Cameron, Owen and Westminster Aves., 15 ft. wide, $5,340. C. W. Hubbell city engr.

Ill., Chicago—Bd. Local Impvts., 207 City Hall, received no bids June 22, paving North and South Franklin Sts. from Lake St. to Jackson Blvd., involving 2,000 cu.yd. grading, 10,500 sq.yd. creosoted wood block paving on 8 in. concrete, 20 catch basins. About $57,000.

Wis., Milwaukee—Bd. Pub. Wks. received no bids June 28, paving and building cement walks on east side 27th Ave. from Lincoln to Burnham Aves., involving 2,671 lin.ft. combined curb and gutter, 1,620 sq.ft. cement walks, etc. Noted June 24.

Wis., North Milwaukee—City rejected bids received June 15, grading and paving streets. About $155,000. Work will be readvertised. H. Webster, city engr. Noted June 10.

Minn., St. Paul—Ramsey Co. plans to pave 1 mi from Kohler Rd. to Goose Lake and 10 mi. from city limits to White Bear, St. Paul-Duluth Highway, also 3½ mi. Rice St. Rd. from north city limits to Lake Johanna, all 24 ft. wide, concrete or asphaltic concrete surface on concrete base. About $58,000, $250,000 and $150,000 respectively. R. R. Godfrey, Court House, engr.

South Dakota—State Highway Comm., Pierre, receives bids in about 2 months, grading, graveling and draining 7 mi. Sioux Falls-Elk Point-Sioux City Rd., 24 ft. wide, including one 60 ft. span steel truss bridge. Work involves 29,400 cu.yd. excav., 13,000 cu.yd. gravel surfacing, 6,000 lb. reinforcing steel, 900 lin.ft. concrete or corrugated culverts and 80 cu.yd. concrete for culverts. About $69,400. F. S. Peck, Pierre, engr.

Missouri—State Highway Dept., Jefferson City, plans to build 25.5 mi. Springfield-Carthage Rd. (Miller Special Rd. Dist.), 24 ft. wide, Lawrence Co., involving 36,516 cu.yd. earth excav., 39 culverts, extensions to 48 culverts, two 20 ft., four 16 ft., and two 3-18 ft. span rein.-con. bridges; 9 mi. Springfield-Hollister Rd. (Spokane Special Rd. Dist.), 24 ft. wide, Christian Co., 22,500 cu.yd. earth excav., 23,311 sq.yd. 6 in. gravel surfacing and 42 culverts; 6.5 mi. Springfield-Hollister Rd. (Selmore-Highlandville Special Rd. Dist.), 24 ft. wide, Christian Co., 17,788 cu.yd. earth excav., 34,320 sq.yd. 8 in. chat surfacing, 20 culverts and extensions to 1 culvert; 5.5 mi. Monett-Eureka Springs Rd. (Washburn Special Rd. Dist.), 24 ft. wide, Barry Co., 1,000 cu.yd. rock and 15,355 cu.yd. earth excav., 29,040 sq.yd. 5 in. gravel surfacing and 21 culverts; 4.5 mi. Monett-Eureka Springs Rd. (Butterfield Special Rd. Dist.), 24 ft. wide, Barry Co., 12,485 cu.yd. earth excav., 13,000 sq.yd. clay bound macadam and 10,760 sq.yd. chat surfacing, both 10 in. deep and 9 ft. wide, and 14 culverts; 17.4 mi. Oklahoma-St. Louis Rd. (Granby Special Rd. Dist.), 24 ft. wide, Newton Co., 84,000 cu.yd. earth excav., 23,845 sq.yd. 5 in. gravel surfacing, one 30 ft. rein.-con. bridge and 1 rein.-con. arch bridge to have four 50 ft. spans, also 53 culverts; 8.3 mi. Osage Valley Highway (Humansville Special Rd. Dist.), 24 ft. wide, Polk Co., 1,000 cu.yd. rock and 25,000 cu.yd. earth excav., 26,400 sq.yd. 5 in. and 17,324 sq.yd. 10 in. gravel surfacing, 4 culverts and extensions to 16 culverts; 3.68 mi. Joplin-Siloam Springs Rd. (Goodman Special Rd. Dist.), 24 ft. wide, McDonald Co., 13,000 cu.yd. earth excav., 19,430 sq.yd. 5 in. gravel surfacing and 15 culverts; 10.5 mi. Salem-Licking Rd., 24 ft. wide, Dent Co., 58,000 cu.yd. earth excav., twenty-seven 12-48 in. corrugated pipe culverts, 9 rein.-con. culverts, one 48 ft. and one 80 ft. span bridges; 7.95 mi. Joplin-Springfield Rd. (Sarcoxie Special Rd. Dist.), 24 ft. wide, Jasper Co., 15,172 cu.yd. earth excav., 74,619 sq.yd. gravel surfacing, 8 culverts and extensions to 5 culverts.

Mo., Jefferson City—City received no bids June 22 resurfacing Havana St. from Main to McCarty Sts., Madison St. from Miller to Dunklin Sts., and Lafayette St. from Miller to Atchison Sts., with bituminous macadam. Noted June 17.

Mo., Monticello—Comrs. Lewis Co. received no bids June 28 building 7.94 mi. Red Ball Route Highway (La Grange Special Rd. Dist.), 24 ft. wide, Federal Aid Project 39, also rein.-con. slab superstructure for Mitchell Bridge. About $87,335. Noted June 24.

Mo., St. Louis—City plans to pave 3,600 ft. Hodimont Ave. from Etzel to Easton Aves., cost $90,000; 1,500 ft. 12th St. from Choteau to Park Aves., 56 ft. wide, involving 9,000 sq.yd. concrete, $15,000; resurface 500 ft. Marcus Ave. from Labadie Ave. to Ashland Pl., $6,000; 5,000 ft. Lafayette Ave. from Jefferson to Grand Aves., $60,000; 5,000 ft. Lawton Ave. from Jefferson to Grand Aves., $60,000; 4,000 ft. Skinker Rd. from Delmar to Forsythe Blvds., $55,000; 3,500 ft. Union Blvd. from Easton to St. Louis Aves., $55,000; 1,500 ft. Maple Ave. from Hamilton to Hodimont Aves., $19,000, 1,500 ft. 7th St. from Park to Choteau Aves., $21,000. W. W. Horner, City Hall, engr.

Tex., Gilmer—Upshur Co. rejected bids received June 17, gravel surfacing and draining 9.015 mi. Highway 42 and 25.877 mi. Highway 1. About $78,363 and $228,636 respectively. D. Walker, co judge. Wilder & O'Neal, Mt. Pleasant, engrs. Noted June 3 and 10.

Streets and Roads (Continued)

Tex., Sherman—Whitewright Dist., Grayson Co., voted $50,000 bonds to build various roads. J. C. Field, Denison, co. engr.

Tex., Waco—Mart Dist., McLennan Co., voted $365,000 bonds to improve various roads. M. Hannah, co. engr.

Tex., Greenville—Hunt Co. having plans prepared grading, surfacing and building rein.-con. and steel bridges and culverts on 3.46 mi. Highway 39 from Commerce northeast to Delta Co. line, 16 ft. wide, involving 3 acres clearing and grubbing, 19,480 cu.yd. unclassified earth excav., 8,877 cu.yd. crushed stone, 79.2 cu.yd. Class "A" and 135 cu.yd. Class "B" concrete, 31,916 gal. bituminous material, 8,800 sq.yd. concrete pavement, 10,389 lb. reinforcing and 51,744 lb. structural steel. About $120,237. A. D. Duck, Greenville, co engr.

Utah, Lehi—City plans to curb, gutter and grade Main St., 60 ft. wide, 7 in. plain concrete. About $35,000. Huddleston & Fiero, Kearns Bldg., Salt Lake City, engrs.

Utah, Provo—City plans to pave .76 mi. 5th and West Sts. to Denver and Rio Grande R.R. crossing, 20 ft. wide, 7 in. plain concrete. About $32,500. C. A. Swan, city engr.

Wash., Seattle—King Co. soon lets contract grading and graveling 2 mi. Three Tree Point Rd., involving 5½ acres grubbing, 3,000 cu.yd. gravel and 38,000 cu.yd. earth excav.

Wash., Yakima—City soon receives bids paving 60 blocks, in main business section, concrete. About $51,655. C. A. Wilson, Yakima, engr.

Cal., Stockton—E. Graham, clk. San Joaquin Co., receives bids about Aug. 15, grading and paving 3½ mi. Hammer Lane, 2 mi. Waterloo Rd., and 4½ mi. Copperolis Rd., 2 in. rock top oil macadam surface on 5 in. gravel base. About $10,000 per mile. Noted June 17.

Ont., Renfrew—Town plans to pave 1 mi. Lisgar St. and McDougal Rd., also 1½ mi. Price and Plaunt Sts., tarvia treatment, penetration method. I. R. Stewart, Renfrew, engr.

BIDS DESIRED

Me., Portland—Until July 28, by E. M. Hunt, comr. Pub. Wks., building 1,956 sq. yd. split, redressed, granite block pavement on Congress St. from India St. to east line of Washington Ave.

Mass., North Adams—Until July 22, by J. L. Temple, comr. Pub. Wks., improving 5,000 sq.yd. concrete roadway and 1,700 lin.ft. concrete combination curb and sidewalk on Beaver St.; advertised in this issue.

N. Y., Brooklyn—Until July 21, by E. Riegelmann, boro. pres., regulating and repaving with permanent asphalt on 6 in. concrete foundation roadway of Atlantic Ave. from Nostrand Ave. to Eastern Parkway extension, 19th Ave. from 82nd to 84th Sts., resurfacing with bituminous macadam 16, ft. wide, roadway of King's Highway from Flatbush Ave. to East 98th St.

N. Y., New York—Until July 20, by H. Bruckner, pres. Bronx Boro., setting curb and repaving with granite block or concrete foundation roadway of East 153rd St. from Park to Morris Aves., regulating, grading, setting curb, laying sidewalks, crosswalks, etc., Harlem River Terrace from Fordham Rd. to end of existing retaining wall on westerly side of street, paving with sheet asphalt on cement concrete foundation roadway of Whitlock Ave. from Leggett to Longwood Aves., paving with bituminous concrete on cement concrete foundation roadway of Garfield St. from Morris Park Ave. to property of New York, New Haven & Hartford R.R., building sewer in Fox St. between Leggett Ave. and East 156th St.

N. Y., New York—Until July 21, by H. H. Curran, pres. Manhattan Boro., regulating and repaving with 3 in. asphaltic concrete, 3 in. asphalt block or sheet asphalt on concrete foundation, roadway of West 18th St. from 8th to 9th Aves., 86th St. from Park to Madison and from Park to 5th Aves., 125th St. from Lexington to Lenox Aves., Bway. from Nagle Ave. to Harlem Ship Canal, East 225th St. to Boro. line, wood and granite block on roadway of Greenwich Ave. from Perry to Bank Sts., wood block on West 18th St. from 8th to 9th Aves.

Pa., Clearfield—Until July 30, by Bd. Comrs. Clearfield Co., building rein.-con. floor on 70 ft. truss bridge over Susquehanna River, at Cherry Tree, also on 155 ft. truss bridge, over Susquehanna River, at Patchinville, both 25 ft. wide. About $50,000. L. C. Norris, clk. E. A. Flink, Commonwealth Trust Bldg., Harrisburg, engr.

Pa., Heidelberg (Pittsburgh P. O.)—Until July 19, by Boro. grading, paving and building sewers in Washington Ave. and Collier St., involving 7,900 sq.yd. vitr. brick on concrete base, 5,400 lin.ft. concrete curbing and 950 lin.ft. pipe, etc. Andrews & Southard, Curry Bldg., Pittsburgh, engrs.

D. C., Washington—Until July 22, by Dist. Comrs., 509 Dist. Bldg., grading various streets; advertised in this issue.

W. Va., Moundsville—Until July 20, by Comrs. Marshall Co. paving 3 mi. Cameron-Poplar Springs Rd., involving 20,000 cu.yd. excav. and 28,000 sq.yd. concrete. About $120,000. R. C. Yoho, Moundsville, engr.

W. Va., Spencer—Until July 23, by A. S. Reynolds, town recdr., grading, curbing and paving Bartlett Ave. from Claud to Spring Sts.; Spring St. from Bartlett Ave. to Water St.; Claud St. from Middle St. to Circle Ave.; Claud St. from Bartlett Ave. to Middle St.; Circle Ave. from Claud St. north and northwest to Bowman 10 ft. alley; Capehart St. from Market to Church Sts.; Middle St. from Claud to Beauty Sts.; Chapman Ave. from College St. to 20 ft. alley at west side of O. Degruyter's lot; Water St. from Market to Alvord Sts.

Georgia—Until July 19, by State Highway Dept., Atlanta, building 6½ mi. Federal Aid Project 111, Union Co., involving 15,486 acres clearing and grubbing, 60,732 cu.yd. earth and 5,887 cu.yd. rock excav., 1,373 cu.yd. overhaul, 20,688 lin.ft. 15-24 in. pipe, 24 cu.yd. concrete in headwalls, 40.84 cu.yd. rubble masonry culverts, 22,127 cu.yd. Class "A" concrete in culverts, 20,206 lb. reinforcing steel, also two small wood truss bridges involving 21,444 ft. timber, 6,098 lb. iron work, 740 cu.yd. rubble masonry, 600 cu.yd. foundation excav.

Ga., Albany—Until July 28, by Bd. Comrs. Rds. and Revenues, Dougherty Co., hard surfacing 2.5 mi. Federal Aid Project 166, State Aid Project S-2-9, involving 26,400 sq.yd. surfacing and 2.5 mi. grading, (1) bituminous macadam on compacted crushed stone, slag or gravel base (Typical Sect. 7, Georgia Standard 43), if bidder prefers bids may be submitted on basis of Finley method, sand dimensions, (2) bituminous concrete on crushed stone slag or gravel base (Typical Sect. 11, Ga. Standard 43), bids may be submitted on basis of Warrenite surfacing, (3) rock asphalt or Willite on crushed stone or slag base (Typical Sect. 14, Ga. Standard 43).

Ga., Griffin—Until July 28, by Comrs. Rds. and Revenues, Spalding Co., building 4.9 mi. State Aid Project S-6-2, involving 26,945 cu.yd. common, 499 cu.yd. borrow and 10 cu.yd. rock excav., 85 lin.ft. 18-24 in. D.S.V.C. pipe, 30 cu.yd. Class "B" concrete cement in headwalls, 51,600 lin.ft. 2 x 8 in. wood curbing and 45,867 sq.yd. bituminous macadam or rock asphalt paving.

La., Opelousas—Until Aug. 14, by Bd. Supervs. St. Landry Parish, building 8.3 mi. Washington-Grand Prairie Highway, also 11.93 mi. Opelousas-Arnaudville Highway from Cains to Arnaudville. Hollier & Durio, Siazan Bldg., engrs.; advertised in this issue.

O., Ironton—Until July 24, by Comrs. Lawrence Co., resurfacing and paving Greasy Ridge Turnpike at Hamlin Store, involving 500 lin.ft. 9 in. sandstone paving, 400 cu.yd. limestone, bluestone or hardrock to be placed in pile near Bent Creek Bridge; Branch Turnpike 3, Millersport Hill west side, 400 cu.yd. limestone in pile; Turnpike 4, Top Jones Creek Hill, 400 cu.yd. limestone in pile; Big Paddy Turnpike, 700 lin.ft. sandstone paving, beginning at Fair Grounds and running north; Lick Creek Turnpike, 300 cu.yd. limestone in pile, near intersection of Rock Camp Rd.

Indiana—Until July 28, by L. H. Wright, dir. State Highway Dept., Indianapolis, grading and draining 9.498 mi. Sect. B, Natl. Rd. between Brazil and Manhattan, Federal Aid Project 6, Clay and Putnam Counties, involving 62,083 cu.yd. excav. and borrow, cost $83,336; 9.997 mi. Sect. C, Natl. Rd. between Manhattan and point 1½ mi. east of Mt. Meridian, Federal Aid Project 6, Putnam Co., 117,196 cu.yd. excav. and borrow, $142,796; 7.955 mi. Sect. E, French Lick Route between Dale and Huntingburg, Federal Aid Project 16, Spencer and Dubois Counties, 55,553 cu.yd. excav. and borrow, $84,219; 9.042 mi. Sect. F, French Lick Route between Hayesville and Crystal, Federal Aid Project 16, Dubois Co., 132,488 cu.yd. excav. and borrow, $132,903; 8.4 mi. Sect. G, French Lick Route between Crystal and French Lick, Federal Aid Project 16, Dubois and Orange Counties, 90,483 cu.yd. excav. and borrow, $107,745; 7.112 mi. Sect. B, Louisville Rd. between junction of New Albany-Jeffersonville Rd. and Memphis, Federal Aid Project 21, Clark Co., 69,307 cu.yd. excav. and borrow, $85,958; 8.807 mi. Sect. C, Louisville Rd. between Memphis and Underwood, Federal Aid Project 21, Clark Co., 113,439 cu.yd. excav. and borrow, $129,530.

Indiana—By Bd. Co. Comrs. building roads in the following counties:

July 20, Miami Co., Peru, grading, draining, paving with gravel and building culverts and bridges, on Elias Butt et al. Rd. between Peru and Erie Twps. C. Wolfaud, Miami Co.

July 24, Henry Co., New Castle, grading, graveling or macadamizing J. W. A. Bird et al. Rd., Stoney Creek Twp. E. McFarland, aud.

July 26, St. Joseph Co., South Bend, 4,0[illegible] ft. Donmoyer Rd., Portage Twp., asphalt macadam; 14,264 ft. Turkey Creek Rd. Porter and Center Twps., concrete. C. Sedgwick, aud.

Ind., Columbus—Until July 31, by Auditor Bartholomew Co., grading, draining and surfacing with gravel, 15 in. deep at center and 7 in. at sides, 27,510 ft. Sawin Rd., 20 ft. wide, Bartholomew, Shelby and Johnson Counties. About $41,000. H. Thomas, Columbus, engr.

Michigan—Until July 27, by State Highway Dept., at dist. office, Port Huron, grading, draining and surfacing 8.046 mi. Assessment Dist. Rd. 205, 16 ft. wide, St. Clair and Macomb Counties, involving 75,320 sq. yd. gravel surface, 31,318 cu.yd. earth excav., 8,680 lb. steel reinforcement, etc. Noted April 22.

Michigan—Until July 20, by State Highway Dept., at dist. office, Port Huron, grading, draining and paving 1.192 mi. State Trunk Line Rd. 27-2, 20 ft. wide, involving 13,934 sq.yd. concrete, 3,790 cu.yd. earth excav., 521 lb. steel reinforcement, etc.

Mich., Grosse Pointe Park (Detroit P. O.)—Until Aug. 3, by city, grading, shaping and paving 2,500 ft. Beaconfield Ave. from Kercheval to Mack Aves., involving 7,000 sq.yd. concrete and 5,000 lin.ft. concrete curbing. C. H. Marden, 502 Whitney Office Bldg., Detroit, engr.

Mich., Lake City—Until July 29, by Rd. Comrs. Missaukee Co., grading, draining and surfacing 3.05 mi. State Trunk Rds. 74-1 and 14-3, 16 ft. wide, involving 28,283 sq.yd. gravel, 185 lin.ft. pipe ad 106 cu.yd. concrete culverts, 2,363 lb. steel reinforcement. State Highway Dept., Lansing, engrs.

Mich., Monroe—Until July 20, by Comrs. Monroe Co., breaking up old bituminous concrete pavement, widening the grade and placing waterbound macadam to depths of 12 in. on 4.41 mi. State Trunk Line 10-27, 20 ft. wide, involving 26,950 ton waterbound macadam, 7,248 cu.yd. earth excav. State Highway Dept., Lansing, engrs.

Mich., Royal Oak—Until July 19, by F. L. Follensbee, village clk., laying 5 mi. 5 ft. sidewalks on various streets, involving 132,000 sq.ft. concrete. About $33,000. G. E. Weltzel, Royal Oak, engr.

Mich., St. Joseph—Until July 27, by Rd. Comrs. Berrien Co., grading, draining and surfacing 1.23 mi. State Trunk Line Rd. 11-11, 20 ft. wide, involving 13,900 sq.yd. bituminous concrete on waterbound macadam base, 4,106 cu.yd. earth excav., etc. State Highway Dept., Lansing, engrs.

Ill., Ashton—Until July 21, by R. J. Dean, village clk., laying 26 blocks cement paving, sewers, manholes, etc. G. G. Nelson, engr., Glen Ellyn; advertised in this issue.

Ia., Dubuque—Until July 21, by Comrs. Dubuque Co., improving 21.95 mi. roads, involving 151,298 cu.yd. earth and 1,666 cu. yd. rock excav., 72,954 lin.ft. 6-12 in. tile and 15 tile intakes. G. A. Blunt, Dubuque, engr.

Ia., Mt. Pleasant—Until July 20, by Comrs. Henry Co., improving 20.62 mi. various roads, involving 99,282 cu.yd. earth excav., 81,633 lin.ft. 6-12 in. tile and 46 tile intakes. C. E. Smith, Mt. Pleasant, engr.

Ia., Storm Lake—Until July 20, by Comrs. Buena Vista Co., improving 12.84 mi. roads, involving 19,267 cu.yd. gravel, 2,200 lin.ft. 6 in. tile, 50 lin.ft. 12 in. tile and 6 tile intakes. E. H. Cunningham, Storm Lake, engr.

Missouri—Until July 30, by State Highway Dept., Carthage, building 6.47 mi. Joplin-Cathage Rd. (Carthage Special Rd. Dist.), 24 ft. wide, Federal Aid Project 84, Jasper Co., involving 22,258 cu.yd. earth and 6,800 cu.yd. rock excav., 1,642 cu.yd. borrow, 3,000 cu.yd. per 100 ft. overhaul, 68,784 sq.yd. 1 course plain cement concrete pavement, 216.4 cu.yd. Class "B" concrete masonry, etc., cost $205,981, also building 3 span, rein.-con. slab superstructure unit, 18 ft. clear roadway, 2 concrete piers and 2 concrete abutments, on above project, 11.6 cu.yd. Class "A," 47.5 Class "B" and 72.9 cu.yd. Class "C" concrete, 6,410 lb. reinforcement, $4,085.

Missouri—Until July 26, by State Highway Dept., Edina, building 6.29 mi. East and West State Rd., State Aid Project S

Streets and Roads (Continued)
1, Knox Co., involving 19,116 cu.yd. borrow, 19,083 cu.yd. earth excav., 1.7 cu.yd. Class "A," 163.4 cu.yd. Class "B," and 12.8 cu.yd. Class "C" concrete masonry, 13,546 lb. reinforcement for concrete masonry, 94 lin.ft. 12-18 in. vitr. clay pipe culverts. About $26,336.

Missouri—Until July 28, by State Highway Dept., Hermitage, building 8.1 mi. Preston-Collins Rd. (Weaubleau Special Rd. Dist.), 24 ft. wide, Federal Aid Project 72, Hickory Co., involving 25,490 cu.yd. earth and 3,638 cu.yd. rock excav., 7,156 cu.yd. borrow, 100 cu.yd. per 100 ft. overhaul, 57,030 sq.yd. gravel surface course specification B, 269.2 cu.yd. Class "B" and 20.2 cu.yd. Class "C" concrete masonry, 19,913 lb. reinforcement for concrete masonry, 242 lin.ft. 12-18 in. vitr. clay pipe and 37 lin.ft. relaid pipe culvert. About $51,033.

Mo., Bolivar—Until July 29, by Comrs. Polk Co., building 13.864 mi. Bolinger-Springfield Rd. (Springfield Rd. Dist.), 24 ft. wide, Federal Aid Project 33, involving 52,030 cu. yd. earth and 3,555 cu.yd. rock excav., 4,050 cu.yd. borrow, 370.4 cu.yd. Class "B" and 1,686 cu.yd. Class "C" masonry, 22,931 lb. reinforcement for concrete masonry, 124.2 cu.yd. cement rubble masonry, 51,107 sq.yd. 10½ in. and 47,976 sq.yd. 5½ in. gravel pavement, etc. About $72,432.

Tex., Gonzales—Until July 26, by J. C. Romberg, judge Gonzales Co., surfacing 10.03 mi. Highway 3, 16 ft. wide, involving 22,088 cu.yd. gravel and 2,275 lin.ft. concrete pavement. About $65,000. Wilder & O'Neal, Mt. Pleasant, engrs.

Que., St. Dorothee—Until July 20, by Laval Co., building roads. About $50,000. E. A. Gauvrau, Dept. Rds., Quebec, engr.

Ont., Chatham—Until July 21, by Kent Co., paving 3 mi. road south of here, 20 ft. wide, waterbound macadam. About $45,000. W. K. McGeorge, Chatham, engr.

Ont., Hawkesbury—Town receiving bids building roads. About $65,000.

Man., Swan River—Until July 25, by town, building various roads. About $60,-000. J. Armstrong, Swan River, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**New Hampshire**—State Highway Comn., Concord, let contract building 2 mi. gravel road, Newbury, to R. E. Bull, 148 Boutelle St., Fitchburg, Mass., $30,316. Noted June 10.

Vt., Bennington—Village received only bid June 23, improving various streets involving 19,300 sq.yd. concrete, 10,110 lin. ft. integral curbing and guttering, 8,500 cu.yd. earth excav., 5,480 ft. 8-36 in. vitr. clay and concrete sewer pipe, from Winslow & Cummings, Nashua, N. H. About $85,-000. Noted June 10.

★**Massachusetts**—State Highway Comn., Boston, let contract building highway in town of Egremont, to Lane Constr. Co., 37 Colony St., Meriden, Conn., $39,734.

★**Mass., Newton** (Boston P. O.)—Street Dept. let contract improving 9,600 sq.yd. Parker St., bituminous macadam, to E. C. Sargent, 149 Putnam St., Quincy, $26,586.

★**Rhode Island**—State Bd. Pub. Rds., State House, Providence, let contract rebuilding 4.4 mi. road, Coventry and West Greenwich, involving 285 sq.yd. concrete masonry, 1,300 sq.yd. cobble gutter, 9,700 sq.yd. concrete paving, 27,700 cu.yd. earth and 1,500 cu.yd. rock excav., 12 acres clearing and grubbing, etc., to R. H. Newell Co., Uxbridge, Mass., $240,510. Noted June 17.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract regulating, recurbing and paving Benson and 12th Aves., 49th and 65th St., to Uvalde Asphalt Paving Co., 1 Bway., New York City, $18,354, $16,543, $14,372 and $10,152 respectively; Maspeth Ave., to Grieco Bros., 172 Russell St., $26,235; regulating, grading and curbing Carroll St., to Castle Bros., Johnson Pl., $15,740. Noted July 8.

N. Y., New York—H. H. Curran, pres. Manhattan Boro., received bids July 6, regulating and repaving with asphalt block, (a) 97th St., (b) Mt. Morris Park, (c) 179th St., (d) 182nd St., (e) Dyckman St., with sheet asphalt, (f) Mt. Morris Park, (g) Dyckman St., with asphaltic concrete, (h) East 97th St., (i) Mt. Morris Park, (j) 179th St., (k) 182nd St., (l) Dyckman St., from Hastings Pavement Co., 25 Broad St., (a) $8,776, (c) $37,964, (d) $36,135, (e) $30,535; Asphalt Constr. Co., 2197 Madison Ave., (f) $62,072, (g) $94,940; Uvalde Asphalt Paving Co., 1 Bway., (f) $63,226, (g) $86,587, (h) $17,393, (i) $67,057, (j) $36,-780, (k) $33,511, (l) $86,119; Sicilian Asphalt Paving Co., 41 Park Row, (f) $63,846; J. L. Busstar, Harlem River and 150th St., (f) $63,982, (g) $86,587, (h) $17,589, (i) $65,096, (j) $37,091, (k) $34,-672, (l) $87,911. Noted July 1.

★**N. J., South Amboy**—Bd. Supervs. Middlesex Co. (New Brunswick) let contract repairing Bordentown Ave., here, to T. H. Riddle, 102 Church St., New Brunswick, $141,500.

Pa., Pittsburgh—City received bids June 21, grading, paving and curbing Woodville Ave. from Independence St. to Banksville Ave., involving (a) 4,467 cu.yd. grading, (b) 350 cu.yd. trench excav., (c) 840 sq.yd. new block stone type 4 pavement, (d) 1,930 sq.yd. sheet asphalt, (e) 4,793 lin.ft. type 1 protected concrete curbing, (f) 22,828 lb. steel reinforcement, (g) 408 cu.yd. plain concrete in retaining walls, abutments and wing walls, (h) 331 cu.yd. rein.-con. in retaining walls and bridge (i) 310 cu.yd. concrete facing, etc., from J. H. McQuade & Sons Co., Bakewell Bldg., (a) $2, (b) $5 (c) $6.25, (d) $5.20, (e) $1.50, (f) $0.09, (g) $22, (h) $25, (i) $25, total $63,886; T. Cronin Co., South 17th and Muriel Sts., (a) $2, (b) $3, (c) $6.50, (d) $4.10, (e) $1.50, (f) $0.10, (g) $24, (h) $28, (i) $33, $66,263; Booth & Flinn, Ltd., 1942 Forbes St., (a) $2.50, (b) $3, (c) $5.70, (d) $5.70, (e) $1.50, (f) $0.10, (g) $20, (h) $25, (i) $30, $66,936.

★**Va., Chatham**—Pittsylvania Co. let contract building 2.99 mi. highway from Schoolfield to state line, involving 18 acres clearing and grubbing, 14,626 cu.yd. excav. and 28,071 sq.yd. 6 in. bituminous macadam, to Battershill & Clay, Virgilina, $82,950.

★**North Carolina**—State Highway Comn., at div. office, Greensboro, let contract top soiling 12.22 mi. Federal Aid Project 111, Forsyth Co., to C. B. Hester, Greensboro, $61,896; 13.6 mi. Federal Aid Project 80, Montgomery Co., to J. A. Kreis & Co., Knoxville, Tenn., $183,556. Noted July 8.

★**Ky., Henderson**—Henderson Co. let contract grading and graveling 5 mi. Owensboro Rd. from Hebbardsville to Green River, to O. Haynes & Co., Henderson, $32,000; 2 mi. Calhoun Rd. (Niagara Rd.), to Brown & Co., Henderson, $16,000.

★**O., Cincinnati**—City let contract improving Hamilton Ave. from Belmont Ave. to North Bend Rd., to Kirchner Constr. Co., 221 West 9th St., $234,022. Noted June 24.

★**O., Cleveland**—City let contract grading, draining, curbing and paving Superior Ave. from East 12th to East 21st St. and from East 21st to East 27th St., to Rieley Bros., The Arcade, $186,448 and $163,382 respectively. Noted July 1.

★**Ind., Clinton**—City let contract grading, excav. and paving North 9th and South Main Sts., 1 course rein.-con., to Foulkes Constr. Co., 705 Ohio St., Terre Haute, $41,779 and 46,654 respectively.

★**Michigan**—State Highway Dept., Lansing, let contract improving 1.437 mi. State Trunk Line Rd. 27-7, 20 ft. wide, Harbor Beach, Huron Co., involving 16,863 sq.yd. concrete and 3,229 cu.yd. earth excav., to Burley-Ramsey Co., Harbor Beach, $65,487; 2.963 mi. State Trunk Line Rd. 16-8, 16 ft. wide, Clinton Co., 27,801 sq.yd. gravel surface, 12,031 cu.yd. earth excav., to Byam & Whittmore, Eagle, $42,072; 2.209 mi. State Trunk Line Rd. 20-9, Sects. A and C, 16 ft. wide, Osceola Co., 20,626 sq.yd. gravel top on stone base, 11,091 cu.yd. earth excav., to J. W. Patterson, Reed City, $30,-647; 3.551 mi. State Trunk Line Rd. 27-10, 16 ft. wide, St. Clair Co., 33,223 sq.yd. crushed stone surface, 20,715 cu.yd. earth excav., to C. McComb, Algonac, $33,668; 9.179 mi. Federal Aid Rd. 44, Sect. A, 16 ft. wide, Lenawee Co., 86,158 sq.yd. gravel surface, 69,549 cu.yd. earth excav., 1,277 lin.ft. tile culverts, 234 cu.yd. concrete in culverts, 3,360 lb. reinforcing steel, etc., to Artificial Stone Co., Eaton Rapids, $168,-566; State Trunk Line Rd. 16-3, Eaton Co., 69,505 sq.yd. gravel surface, 347 stations fine grading, to M. E. Fitzpatrick, 120 West St. Joseph St., Lansing, $55,604. Noted Feb. 19 and May 27.

Ill., Chicago—Bd. Local Impvts., 207 City Hall, received bids June 25, paving (1) alley between Blackhawk, Elk, Paulina and Bauwans Sts., involving 210 cu.yd. grading, 540 sq.yd. 7 in. concrete, (2) alley between Congress, Harrison, Keeler and Kildare Sts., 400 cu.yd. grading, 1,030 sq.yd. asphalt on 7 in. concrete, (3) alley between Wilmot and Milwaukee Aves., Leavitt St. and Oakley Blvd., 1,600 ft. concrete curbing, etc., 713 cu.yd. grading, 1,250 sq.yd. vitr. brick on 6 in. concrete, 310 ft. tile sewers, etc., (4) alley between Van Buren and Congress Sts., Western and Campbell Aves., 405 cu. yd. grading, 1,552 sq.yd. asphalt on 7 in. concrete, (5) alley between Wrightwood Ave., Altgeld St., Sawyer and Spaulding Aves., 477 cu.yd. grading, 1,500 sq.yd. asphalt on 7 in. concrete, 230 ft. 10 in tile sewers, etc., (6) alley between Logan Blvd., Altgeld, Mozart and Francisco Sts., 1,060 sq. yd. asphalt on 7 in. concrete, 280 ft. 10 in. tile sewers, etc., (7) alley between Augusta St., Milwaukee Ave. and Will St., 1,190 ft. concrete curbing, 581 cu.yd. grading, 980 sq.yd. vitr. brick on 6 in. concrete (8) alley between Congress and Harrison Sts., Kilpatrick and Cicero Aves., 320 cu.yd. grading, 1,280 sq.yd. asphalt on 7 in. concrete, etc., (9) South Park Ave. from East 91st to East 95th Sts., 5,000 ft. concrete curbing, 6,000 cu.yd. grading, 11,010 ft. 8 in. blast furnace slag or limestone on 2½ in. crushed granite or traprock, etc., (10) Lamon Ave. from Oakdale to Barry Sts., 2,050 ft. concrete curbing, 1,281 cu.yd. grading, 2,860 sq.yd. asphalt on 6 in. concrete, 200 ft. 10 in. tile sewers, etc., (11) Loomis St. from West 22nd St. to point 2,048 ft. south, 3,980 ft. concrete curbing, 2,000 cu.yd. grading, 5,230 sq.yd. vitr. brick on 8 in. concrete, etc., (12) Loomis St. from point 500 ft. north of West 90th to West 93rd Sts., 5,250 ft. concrete curbing, 5,000 cu.yd. grading, 8,500 sq.yd. 10 in. blast furnace slag or limestone on 2½ in. limestone bonded with asphaltic cement, 122 ft. 10 in. tile sewers, etc., (13) West 105th St. from Wentworth Ave. to Chicago & Eastern Indiana Ry. right of way, 2,570 ft. curbing, 2,200 cu.yd. filling, 4,270 sq.yd. 10 in. blast furnace slag or limestone on 2½ in. crushed limestone bonded with asphaltic cement, etc., (14) North Parkside Ave. from LeMoyne St. to West North Ave., 1,250 ft. concrete curbing, 425 cu.yd. grading, 1,670 sq.yd. asphalt on 6 in. concrete, etc., (15) South Leavitt St. from point 136 ft. north of West 18th to West 22nd Sts., 3,300 ft. concrete curbing, 1,200 cu.yd. grading, 4,530 sq.yd. asphalt on 6 in. concrete, 22 catch-basins, from Central Paving Co., 179 West Washington St., (1) $2,325, (2) $5,133, (3) $12,983, (4) $6,634 (5) $8,771, (6) $6,789, (7) $7,970 (8) $6,117; J. Dillon & Co., 179 West Washington St., (1) $2,345, (2) $5,107, (3) $13,227, (4) $6,607, (5) $8,781, (6) $6,804, (7) $8,048 (8) $6,058; Contg. & Material Co., 3219 South Michigan Ave., (1) $2,480, (2) $5,213, (3) $13,358, (4) $6,705, (7) $8,236, (8) $6,309; J. A. Ross & Co., 4561 Armitage Ave., (5) $8,796, (6) $6,765; J. A. Sackley Co., 133 West Washington St., (9) $57,408, (11) $48,825, (12) $53,334, (13) $24,499; Farr Bros. Co., 356 West 111th St., (9) $58,268, (12) $52,991, (13) $24,328; R. F. Conway Co., 133 West Washington St., (10) $21,204, (14) $10,748, (15) $29,946; Amer. Asphalt Paving Co., 1331 West Washington St., (10) $21,325, (14) $10,568, (15) $30,321; White Paving Co., 17 North La Salle St., (10) $21,359, (14) $10,650, (15) $30,668; Ready & Callaghan Coal Co., 133 West Washington St., (11) $48,175; J. A. McGarry & Co., 189 West Madison St., (12) $52,769, (13) $24,637.

Wis., Mayville—City received bids June 29, improving Main, School and Bridge Sts., etc., involving (a) 8,100 cu.yd. grading, (b) 17,500 sq.yd. rein.-con. pavement, (c) 17,500 sq.yd. asphaltic concrete, (d) 17,500 sq.yd. sheet asphalt, (e) 5,100 lin.ft. concrete, curb and gutter, (f) 17,500 sq.yd bituminous concrete from L. Larsen, 104 Main St., Oshkosh, (a) $1.39 per cu.yd., (b) $3.69, (c) $1.29; J. Rasmussen & Sons, 7th St., Oshkosh, (a) $1.40, (c) $3.85, (d) $3.90, (e) $1.20, (f) $4.04; F. Caughlin Co., 30 North La Salle St., Chicago, (a) $1.50, (c) $4, (d) $4.20, () $1.25, (f) $4.30. Noted June 24.

★**Wis., Milwaukee**—Bd. Pub. Wks. let contracts paving and building cement sidewalks on (1) north side Atkinson Ave. from Green Bay to 11th Sts., involving 4,816 sq. ft. cement walks, (2) Ontario St. from Superior to Beulah Aves., 1,025 sq.yd. light traffic asphalt, (3) 16th St. from Vliet to Fond du Lac Aves., 8,648 sq.yd. standard sheet asphalt, (4) 17th St. from Mendels sub-division to Davis St., 1,184 sq.yd. standard sheet asphalt, (5) Wells St. from 33rd to 35th Sts., 1,359 sq.yd. light traffic asphalt resurface, (6) alley between East Water, Market, Knapp and Juneau Aves., 559 sq. yd. cement concrete pavement, (7) alley between 16th, 17th, Clybourn and Grand Aves., 660 sq.yd. cement concrete, (3) alley between Sherman, Walnut, 10th and 11th Sts., 430 sq.yd. cement concrete, (9) alley between 10th, 11th, Vine and Harmon Sts., 480 sq.yd. cement concrete, (10) alley between 5th, 6th, Hayes and Arthur Aves., 1,277 sq.yd. cement concrete, (11) alley between Arthur, Harrison, 10th and American Aves., 1,166 sq.yd. cement concrete, (12) alley between Arthur, Harrison, 3rd and 4th Aves., 1,440 sq.yd. cement concrete, (13) alleys between 26th, 27th, State and Cedar Sts., 850 sq.yd. cement concrete, (14) south alley between east and west and north and south between 34th, 35th, Clybourn and St. Paul Sts., 822 sq.yd. cement concrete, (15) north alley between 30th, 31st, St. Paul and Clybourn Sts., 502 sq.yd. cement concrete, (16) alley between 32nd, 33rd, Park Hill and Mt. Vernon Sts., 963 sq.yd. cement concrete, (17) alley between 39th, 40th, Clarke and Center Sts., 1,219 sq.yd. cement concrete, (18) alleys between 47th, 48th, Elm and North Aves., 736 sq.yd.

Streets and Roads (Continued)

cement concrete, (19) alley between 38th, 39th, Clarke and Center Sts., 784 sq.yd. cement concrete, (20) alley between 57th, 58th, Elm and North Aves., 810 sq.yd. cement concrete, (21) alley between 26th, 28th, Madison and Greenfield Sts., 827 sq.yd. cement concrete, (22) alley between 17th, 18th, South Pierce and National Sts., 555 sq.yd. cement concrete, (23) alley between 14th, 15th, Davis and Finn Sts., 1,119 sq.yd. cement concrete, (24) alley between 9th, 10th, Ring and Concordia Aves., 946 sq.yd. cement concrete, (25) alley between 10th, 11th, Ring and Concordia Aves., 947 sq.yd. cement concrete, (26) alley between 12th, Louis, Ring and Concordia Aves., 955 sq.yd. cement concrete, (27) alley between 14th, 15th, Ring and Concordia Aves., 562 sq.yd. cement concrete, (28) alley between 17th, 18th, Davis and Finn Sts., 464 sq.yd. cement concrete, to F. Schomann, 770 28th St., (1) $0.35 per sq.ft; White Constr. Co., 420 East Water St., (2) $3.65 (4) $3.90, (5) $2.35; Badger Constr. Co., Ry. Exch. Bldg., (3) $387; F. Banaszak, 1335 4th Ave., (6) $2.45, (10) $2.24, (11) $2.24, (22) $2.33; M. Switalski, 765 5th Ave., (7) $2.35, (14) $2.45, (16) $2.45, (23) $2.40; Retzlaff, Froemming & Bluhm, 948 4th St., (8) $2.52, (9) $2.48; R. H. Gumz, 831 13th Ave., (12) $2.25; Blodgett-Clayton Constr. Co., 204 Grand Ave., (13) $2.34, (19) $2.36, (21) $2.36; Dean Constr. Co., Camp Bldg., (15) $2.70, (20) $2.70; O. Bodemann, 801 Winnebago St., (17) $2.35, (18) $2.30, (24) $2.35, (25) $2.35, (26) $2.35, (27) $2.35, (28) $2.35. Noted June 24.

★**Minn., Detroit**—Becker Co. let contract grading and graveling Federal Aid Project 132, Sect. B, to L. P. Graham, Frazee, $27,287. Noted May 20.

★**Minn., Mankato**—Blue Earth Co. let contract grading 7 mi. Federal Aid Project 153, 24 ft. wide, to Grant Smith & Co., 1505 Pioneer Bldg., St. Paul, $50,204.

★**Kan., Girard**—Crawford Co. let contract grading and draining 2.98 mi. Federal Aid Project 40, Sects. H and I, 18 ft. wide, to Maxwell Constr. Co., Columbus, $44,510. Noted June 24.

★**South Dakota**—State Highway Comn., Pierre, let contract grading and draining 10.88 mi. Redfield-Watertown Rd., 36 ft. wide, Federal Aid Project 34, Spink Co., involving 27,833 cu.yd. common, 20,301 yd. sta. overhaul and 240 cu.yd. structure excav., 16,758 lb. reinforcing and 745 lb. structural steel, 1,602 lin.ft. rein.-con. or corrugated iron pipe culverts, 187 cu.yd. Class "A" and 109 cu.yd. Class "B" concrete, to D. D. Bidwell, Eagan, $61,102. Noted July 1.

★**South Dakota**—State Highway Comn. Pierre, let contract graveling 10 mi. Sioux Falls-Del Rapids Rd., 24 ft. wide Federal Aid Project 12, Minnehaha Co., to W. R. Shipman Constr. Co., Sioux City, Ia. About $76,000. Noted March 25.

Mo., Carthage—Jasper Co. received bids June 25, building 2.76 mi. Joplin-Carthage Rd. (Carterville Special Rd. Dist.), 24 ft. wide, Federal Aid Project 81, from Koch & Kost, Joplin, $85,466; Carterville Constr. Co., Carterville, $86,118. Noted June 17.

★**Mo., Kansas City**—Park Bd. let contract grading roadway, Linwood Blvd. from Independence Ave. to 31st St., involving 176,000 cu.yd. earth excav., to H. H. Hancroft, Kansas City, $0.77 per cu.yd.

Tex., Austin—Travis Co. received bids July 5, improving (1) 3.1 mi. Austin-Georgetown Rd., 16 ft. wide, involving (a) grading and surfacing with rock, (b) surfacing with bituminous topping, (c) building rein.-con. drainage structures, (2) 3 mi. Austin-Oak Hill Rd., (a) grading and surfacing with gravel, (b) building rein.-con. drainage structures, (c) surfacing with bituminous topping, from McMillen & Williamson, Austin, (1a) $31,976; Brown & Root, Taylor, (1a) $34,000, (2a) $12,195; Finley Method Co., 703-4 Stewart Bldg., Houston, (1a) $29,033, (1b) $22,919, (1c) $3,678, (2a, b, c) $49,537; W. E. Dozier, Dam Blvd., (1b) $25,921, (1c) $3,808, (2b and c) $30,253; Haden & Austin, 727 Kress Bldg., Houston, (1b) $19,815. Noted July 1.

★**Tex., Bastrop**—Bastrop Co. let contract grading, surfacing and draining 2.28 mi. Highway 3-A between here and Austin, 16 ft. wide, to Rice & Winder, Cameron, $22,068; including 10% for engineering and contingencies. Work involves 5.6 acres clearing and grubbing, 11,063 cu.yd. borrow and 1,941 cu.yd. earth excav., 6,631 cu.yd. gravel, 9,258 lb. reinforcing steel, 89.7 cu.yd. Class "A" and 38.6 cu.yd. Class "B" concrete.

Tex., Cooper—Delta Co. received bids grading, gravel surfacing and building rein.-con. culverts on 11.7 mi. Highway 39 from here to Hunt Co., 14 ft. wide, from Smith Bros. and Healey Constr. Co., c/o Healey Constr. Co., Dallas, $145,497; Wear, Thomas & Ratcliff, Rogers, $124,438. Work involves 10 acres clearing and grubbing, 74,797 cu. yd. earth excav., 6,280 sq.yd. concrete pavement, 22,681 cu.yd. gravel furnished by county, cost $65,975, 411.4 cu.yd. Class "A," 91.67 cu.yd. Class "B" and 34.82 cu.yd. Class "C" concrete.

★**Tex., Longview**—Greeg Co. let contract furnishing labor and material improving 14.49 mi. Highway 1 from Harrison Co. to Upshur Co. line, 16 ft. wide, involving 33,373 gal. bituminous material and 1,483 cu.yd. trap rock cover material, to Texas Road Co., Great Southwestern Life Bldg., Dallas, $25,981; including 10% for engineering and contingencies.

★**Tex., Mt. Pleasant**—Titus Co. let contracts to Smith Bros., Crockett, grading, surfacing and draining 11.21 mi. Highway 1, Federal Aid Project 27, 16 ft. wide, $168,172; 5.75 mi. Highway 35, State Aid Project 84, 16 ft. wide, $49,272; 7.26 mi. Highway 1 from point 4 mi. east of here to Morris Co. line, 16 ft. wide, $68,117; 5.148 mi. Highway 11 from here to Camp Line, 12 ft. wide, $44,579. All include 10% for engineerng and contingencies. Noted July 1.

Tex., Paris—Lamar Co. received bids surfacing (1) 27.7 mi. Highway 5 from county line to county line, 16 ft. wide, involving 33,991 cu.yd. scarifying, 68,261 cu.yd. gravel, 4,146 cu.yd. macadam stone and 260,019 sq.yd. rolling, (2) 22.16 mi. Highway 19 from county line to county line, 16 ft. wide, 32,791 sq.yd. scarifying, 40,764 cu.yd. gravel, 2,112 cu.yd. limestone base, etc., from Thomas & Ratcliff, Rogers, (1) $146,907, Womack, McElwrath & Rogers, Corsicana, (1) $164,079, (2) $180,090; Smith Bros. & Healey Constr. Co., c/o Smith Bros., Crockett, (1) $193,127, (2) $212,897; Laroe & Burgess, Mineola, (2) $214,367.

★**Cal., San Diego**—Bd. Supervs. San Diego Co. let contract paving 9.75 mi. Mission Rd. 1 A, 15 ft. wide, 5 in. concrete, to Hunkin-Conkey Constr. Co., Box 536, Los Angeles, $262,995.

★**Cal., San Diego**—Bd. Supervs. San Diego Co. let contract paving 7.5 mi. Coronado-Chula Vista Rd., Sect. 6, 18 ft. wide, 5 in. Portland cement concrete, to G. R. Daley, McNeece Bldg., $159,709; 9.5 mi. Julian Rd. No. 3 A, 18 ft. wide, to D. H. Ryan, San Diego, $225,368. Noted June 24.

★**Cal., Stockton**—City let contract paving North St., to Federal Constr. Co., Call Bldg., San Francisco, $41,178.

★**Que., Montreal**—City let contract paving St. Ambrose St., to Sicily Asphaltum Paving Co., 60 St. Viteur St. E., $100,875; St. Patrick St. and Western Aves., to Quinlan & Robertson, 260 St. James St., $45,034 and $19,420 respectively. Noted June 17.

Ont., Sarnia—City let contract paving 1½ mi. Confederation St., 24-40 ft. wide, involving 12,000 sq.yd. 3 in. asphalt on concrete base, to Warren Bituminous Co., McKinnon Bldg., Toronto, $66,108.

Railways

PROPOSED WORK

New York—General Electric Co., River Rd., Schenectady, plans to build 3 mi. railway from Schenectady to Rotterdam Jct. C. G. Hulth, supt. of Grounds & Bldg. Dept.

Ohio—Cleveland Ry., Leader-News Bldg., plans to build 2 mi. single track on Ridge Rd. from Pearl to Bean Rds. About $100,000. C. C. Clark, ch. engr.

Indiana—See "Industrial Works" under Ft. Wayne.

Michigan—Detroit Municipal Street Ry. received no bids June 21, furnishing 55,000 oak ties. Noted June 17.

Ontario—A conference has just been held at Niagara Falls between Sir Adam Beck, chn. Hydro Electric Comn., and owners of Niagara railway arch bridge, in reference to use of bridge by radial railway lines, which will necessitate four-tracking same. The conference gives good promise of the project going through. Charles Evan Fowler, engr., 25 Church St., New York City, will prepare plans.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Michigan—Detroit Municipal Street Ry. received bids June 21, building (a) Charlevoix-Buchanan Route, (b) St. Jean, Shoemaker, Montclair Line, (c) Warren Ave., West Line, (d) furnishing rails, rods, nuts, spikes, splices, bolts, etc., from Lennane & McIlvenna, 1205 Book Bldg., (a) $676,977, (c) $99,963; Dept. Pub. Wks., Detroit, (a) $676,211; J. A. Mercier, 216 Hammond Bldg., (a) $605,531, (b) $164,730; T. E. Currie, 20 McGraw Bldg., (b) $167,080; J. Porath, 34 McGraw Bldg., (c) $78,019; Bethlehem Steel Co., Bethlehem, Pa., (d) $709,676; Lorain Steel Co., Lorain, O., (d) $553,392. Noted June 17.

Excavation and Dredging

PROPOSED WORK

Ark., Texarkana—Reclamation—Index-Sulphur D. D. plans to make surveys for system to reclaim 125,000 acres of overflowed lands along Red River, near here. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Utah, Widtsoe—Irrigation—Johnsville Irrigation Co. plans to reconstruct Hatchtown dam to impound 6,000 acre-ft. of water and build canals to bring water to company's holdings. About $120,000. E. Jorgensen, pres.

BIDS DESIRED

Ia., Clarinda—Channel—Until July 21, by Bd. Supervs. Page Co., building new channel for Nishnabotna River, in D. D. 17, involving 678,309 cu.yd. excav. V. Freed, aud.

Ia., Des Moines—Drainage—Until July 19, by F. J. Alber, aud. Polk Co., building Polk-Story D. D. 4, involving 13,500 ft. 6-26 in. tile.

Ia., Ft. Madison—Drainage—Until July 27, by R. A. Gardner, aud. Lee Co., improving Green Bay Levee and D. D. E. T. Perkins Eng. Co., 1211 1st Natl. Bank Bldg., Chicago, engrs.; advertised in this issue. Noted May 6.

Ark., Jonesboro—Ditches—Until July 20, by Bd. Comrs. D. D. 24, Craighead Co., at office of A. L. Salmons, secy., 108½ West Washington Ave., building ditches in said district, involving 950,000 cu.yd. excav.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., Wilkes-Barre**—Dredging—City let contract dredging and widening Solomon Creek, to Goeringer Constr. Co., South Washington St., $52,580.

★**Ia., Storm Lake**—Drain—Buena Vista Co. let contract improving D. D. 128, to H. Johnson, Albert City, and Cement Products Co., Spencer. Noted April 29.

Industrial Works

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—Byrne Realty Co., 435 Geneva Ave., having plans prepared by M. H. Maney, archt., 16 Paisley Park, for 1 story, 95 x 165 ft., brick and concrete addition to garage, concrete flooring and foundation, on Holmes Ave. About $50,000.

Conn., Plantsville—Atwater Mfg. Co. plans to build plant to replace one recently destroyed by fire. Loss $100,000. Private plans.

N. Y., Buffalo—Parenti Motors Corp., 1754 Main St., plans to build 1 story, 105 x 350 ft., brick, concrete and steel factory, on Kensington Ave. along tracks of Delaware, Lackawanna & Western R.R. About $200,000.

N. Y., New York—Sommerfeld & Steckler, archts. and engrs., 31 Union Sq., receive bids about Aug. 2, building 7 story, 50 x 50 ft., brick, concrete and steel factory, rein.-con. flooring, concrete foundation, for Rigaud Perfume Co., 75 Barrow St. Noted July 8.

N. Y., New York—J. M. Felson, archt. and engr., 1133 Bway., soon lets contract building 3 story, brick and steel garage and service station, rein.-con. flooring, concrete foundation, on Manhattan Ave. and 130th St., for S. and Z. Bldg. Co., c/o architect. About $120,000. Noted July 1.

N. J., Orange—Monroe Calculating Machine Co., Mitchell St., having plans prepared by Amer. Concrete Steel Co., archts. and engrs., 27 Clinton St., Newark, for 4 story, 68 x 178 ft., rein.-con. addition to factory.

Pa., Johnstown—Heyl & Patterson, Inc., 50 Water St., Pittsburgh, having plans prepared for additions to factory here, to include 99 x 264 ft. washer and pit building and 40 x 60 ft. larry bin building, both 1 story brick and steel. Private plans.

D. C., Washington—Marsh & Peter, archts. and engrs., 522 13th St., soon lets contract building 9 story, rein.-con., brick and steel addition to plant, rein.-con. flooring, concrete foundation, for Star Newspaper Co., 11th St. and Pennsylvania Ave.

Va., Richmond—Old Dominion Beverage Co. plans to build factory at 1300 West Broad St. About $100,000.

Va., Richmond—Virginia Chemical Co., 12th St., had plans prepared for 5 story plant, steel. About $250,000. Private plans.

N. C., Hickory—United Mills Co. plans to build cotton yarn mill. About $50,000. R. C. Biberstein, 614 Elizabeth Ave., Charlotte, engr.

Tenn., Memphis—Fly Shot Co., Nashville, Ga., purchased site on Iowa Ave. and 4th St. here, and plans to build 2 story, 50 x 150 ft. factory. About $100,000.

Industrial Works (Continued)

Ky., Louisville—Dixie Belle Refining Co., 701 Inter-Southern Bldg., plans to build refinery on Western Parkway. About $500,000. C. B. Haun, owner, archt.

O., Akron—B. F. Goodrich Co., South Main St., plans to build 8 story warehouse, 530,000 ft. floor space, on Rubber and Falor St., to cost $1,000,000. Company announces its 1920 building program will aggregate $10,000,000 and include erection of many small buildings, water softener plant and power house.

O., Cincinnati—E. K. Shannon Chemical Co., Dana Ave. and along tracks of Cincinnati, Lebanon & Northern R.R., soon lets contract building 1 story, 100 x 157 ft. chemical warehouse, rein.-con., brick and steel, con. foundation. Rendigs, Panzer & Martin, Palace Theatre Bldg., archts.

O., Cleveland—Republic Tool & Mfg. Co., 1399 West 9th St., plans to build 1 story, 60 x 210 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, on Harvard Ave. and Independence Rd. About $100,000. C. E. Lowe, pres. Architect and Engineer not selected.

O., Troy—Gummed Products Co. plans to build 2 story, 100 x 140 ft., rein.-con. factory, rein.-con. flooring, concrete foundation, on Market St. About $200,000. Private plans.

Ind., Ft. Wayne—The International Harvester Co. of Amer., Inc., 606 South Michigan Ave., Chicago, has purchased 140 acre site, east of here, and plans to build plant for the manufacture and assembling of motor trucks. First unit will cover 12 acres, and include number of standard 1 story, steel buildings of monitor type and 3 story, L-shaped, rein.-con. building, to house carpenter shops and shipping dept. Ultimate development of entire plant as now planned will extend over period of 3 years and cost about $4,000,000. Incidental to construction of plant proper, will be development of number of transportation and civic projects, including railway connecting several steam railroads, extension of streets, street railway lines, sewers, water mains, electric lights, gas and telephone services and 1,000 homes for future employees. Private plans.

Ind., Syracuse—Wawasee Tire & Rubber Co., Elkhart, plans to build 3 story, 50 x 175 ft., brick, tile and concrete mill, here. R. L. Simmons, c/o owner, archt. and engr.

Mich., Detroit—Crane & Co., Atwater and Randolph Sts., had plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, for 1 story 96 x 160 ft. pipe warehouse steel and corrugated iron, rein.-con. flooring, concrete foundation, with crane ways, on Rivard and Franklin Sts. About $50,000.

Mich, Detroit—Detroit Casket Co, 185 Congress St, having plans prepared by Van Leyen, Schilling, Keough & Reynolds, archts., Cass Ave., for 3 story, 115 x 150 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation. About $100,000.

Mich., Detroit—Detroit Transportation Assn. c/o F. L. Henk, secy. Bd. of Commerce, plans to build 1 story, 150 x 165 ft. freight terminal, garage and service station, brick and steel, on 14th Ave. and Howard St. About $75,000. Private plans.

Mich., Durand—City plans to build power house for waterworks and lighting plant. About $50,000. R. A. Murdock, 603 Free Press Bldg., Detroit, engr.

Ill., Chicago—Great Western Smelting & Refining Co., 600 West 41st St., plans to construct 3 large 1 story units and office building, on Union Ave. and 51st St. About $1,000,000. H. L. Newhouse, 4630 Prairie Ave., archt.

Wis., Racine—Hamilton-Beach Mfg. Co., Rapids Drive, had plans prepared for A. L. Flegel, archt., Baker Blk., for 1 story, 80 x 200 ft., brick and steel foundry, concrete foundation. About $60,000.

Wis., Waukesha—Waukesha Casting Co., 340 Bway., having plans prepared by C. Kawin Co., engrs., 431 South Dearborn St., Chicago, for 1 story, 120 x 130 ft., brick and steel foundry, concrete flooring and foundation. About $50,000.

Ia., Des Moines—Sargent & Ash Milling Co. soon receives bids building 4 story flour mill, rein.-con., on Guthrie Ave. About $200,000. Private plans.

Ia., Marshalltown—C. A. Dunham Co., 343 South Dearborn St., Chicago, plans to build 2 story, 40 x 150 ft. addition to factory. About $150,000. Architect not selected.

Minn., Minneapolis—Russell Miller Milling Co., Security Bldg., having plans prepared by Kees & Colburn, archts., 246 Plymouth Bldg., for 1 story, 50 x 140 ft. addition to warehouse, rein.-con., on 25th S. E. and Marshall Aves. C. G. Ireys, secy.

Ark., Little Rock—Shoemaker Bldg. Co. soon lets contract building 2 story, 140 x 150 ft. rein.-con., brick and steel garage, rein.-con. flooring, concrete foundation, on Center St. About $175,000. Sanders & Ginocchio, Little Rock, archts.

Ont., Bell River—Fraser & Bryson Lbr. Co., Ltd., Castle Bldg., Ottawa, soon receives bids building ground wood pulp mill, here. About $300,000.

Ont., Porcupine—McChesney, Ltd., soon receives bids building saw mill. About $100,000.

Que., Montreal—Sea Sled Co., Ltd., plans to build plant. About $250,000. W. J. Shaughnessy, Montreal, interested.

Que., Nouvelle—A. Filion, Ltd., soon receives bids building planing and saw mill. About $100,000.

BIDS DESIRED

S. C., Anderson—Until Aug. 1, by D. Brown, building 2 story, 60 x 150 ft. brick, rein.-con. and steel warehouse. About $60,000. Noted June 24.

O., Cleveland—See "Buildings."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Cambridge**—Webster & Libby, archts. and engrs., 334 Congress St., Portland, Me., let contract to J. T. Scully Co., 118 1st St., East Cambridge, building 3 story, 106 x 127 ft., rein.-con. addition to bakery, rein.-con. flooring, concrete foundation, on Sidney St., for Johnson Educator Food Co., 100 Sidney St. About $125,000. Noted May 27.

★**Mass., Malden**—Standard Oil Co. of New York, 26 Bway., New York City, let contract building 1 story, 60 x 102 ft. warehouse and 1 story, 60 x 132 ft. boiler house, rein.-con. and steel, rein.-con. flooring, concrete foundations, here, to H. D. Best, 175 5th Ave., New York City.

★**Mass., Norfolk Downs** (Boston P. O.)—Boston Gear Wks. let contract building 1 and 2 story, 100 x 120 ft., brick and steel addition to plant, concrete foundation, to Canter Constr. Co., 6 Beacon St., Boston. About $60,000.

★**Mass., Somerville** (Boston P. O.)—Great Atlantic & Pacific Tea Co., 451 D St., South Boston, let contract building 5 story, 100 x 370 ft., rein.-con. warehouse, rein.-con. flooring, concrete foundation, on Pittsburg St., to Turner Constr. Co., 178 Tremont St., Boston. About $650,000.

★**Mass., Worcester**—M. N. Ullman, 50 Water St., will build 1 story, 80 x 95 ft., brick and concrete garage, rein.-con. flooring, concrete foundation, on School St. About $50,000. Work will be done by day labor. Noted July 1.

★**Conn., East Hartford** (Hartford P. O.)—A. F. Way Co., 32 Union Pl., Hartford, let contract building 1 story, 50 x 150 ft., brick and concrete factory, rein.-con. flooring, concrete foundation, here, to E. L. Gates, 138 North Elm St., Manchester. About $75,000. Noted July 1.

★**Conn., Groton**—M. Pollack, 14-16 East 22nd St., New York City, let contract building 2 story, 60 x 180 ft., rein.-con. and steel dye house, rein.-con. flooring, concrete foundation, here, to H. D. Best, 175 5th Ave., New York City.

★**N. Y., Brooklyn**—Natl. Lead Co., 111 Bway., New York City, let contract building 4 story, 50 x 100 ft., rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Marshall St., to White Constr. Co., 95 Madison Ave., New York City. About $110,000.

★**N. Y., Buffalo**—Standard Oil Co. of New York, 26 Bway., New York City, let contract building 4 story, 105 x 115 ft., rein.-con. and steel addition to garage, rein.-con. flooring, here, to H. D. Best, 175 5th Ave., New York City.

★**N. Y., New York**—J. M. Felson, 1133 Bway., will build 2 story, 75 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on 36th St. About 60,000. Work will be done by day labor.

★**N. Y., Richmond Hill** (Jamaica P. O.)—R. M. Krauser, c/o C. Bauer, archt. and engr., 788 Manhattan Ave., Brooklyn, will build 3 story, 60 x 100 ft., brick and steel factory, rein.-con. flooring, concrete foundation, here. About $80,000. Work will be done by day labor. Noted June 24.

★**N. Y., Syracuse**—Standard Oil Co. of New York, 26 Bway., New York City, let contract building 2 story, 100 x 140 ft. warehouse, 1 story, 40 x 55 ft. tank house, 1 story, 36 x 90 ft. boiler and pump house and 1 story, 60 x 120 ft. garage, rein.-con. and steel, rein.-con. flooring, concrete foundations, here, to H. D. Best, 175 5th Ave., New York City.

★**N. J., Newark**—Peerless Baking Co., 713 South 14th St., let contract building 2 story, 50 x 100 ft. factory and power house, rein.-con., on Nye Ave. and Clinton Pl., to United Fireproofing Co., 8 West 40th St., New York City.

★**Pa., Phila.**—See "Buildings."

★**S. C., Conestee** (Greenville P. O.)—Conestee Mills let contract building 2 story, 100 x 200 ft. concrete and steel warehouse, rein.-con. flooring, concrete foundation, to H. D. Best, 175 5th Ave., New York City.

★**Ga., LaGrange**—Swift Co., U. S. Yards, Chicago, Ill., let contract building 1 story, 200 x 350 ft., acidulating plant, concrete, brick and steel, concrete foundation, to G. Johnson & Son, c/o owners. About $250,000.

★**Tenn., Memphis**—Iten Biscuit Co., 1202-24 Capitol Ave., Omaha, Neb., let contract building 8 story, 290 x 450 ft., rein.-con. factory, rein.-con. flooring, on Florida St., here, to Alexander Constr. Co., 388 North Front St. About $500,000. Noted Jan. 8.

★**O., Cleveland**—Eaton Axle Co., 10307 Euclid Ave., let contract building 1 story, 62 x 123 ft., heat treating plant and boiler room, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, at 831 East 140th St., to Lundoff-Bicknell Co., 5716 Euclid Ave. About $50,000.

★**Ill., Mt. Vernon**—Swift & Co., U. S. Yards, Chicago, let contract building 2 story, brick and concrete warehouse, rein.-con. flooring, concrete foundation, here, to T. Stark & Co., Cedar Rapids, Ia. About $165,000.

★**Wis., Milwaukee**—Ogden Garage Co., 529 26th Ave., let contract building 1 story, 100 x 160 ft., brick, concrete and steel garage and repair shop, concrete flooring and foundation, on Ogden Ave., to Hansen Constr. Co., 425 East Water St. About $60,000.

★**Ia., Muscatine**—Muscatine Packing Co. let general contract constructing packing plant, to include 4 story, 54 x 64 ft. fertilizer building, 1 story, 50 x 100 ft. power house, 5 story, 100 x 200 ft. storage building, 5 story, 70 x 85 ft. abbatoir and 5 story, 50 x 100 ft. office, stock pen and manufacturing building, brick, rein.-con. and steel, to Federation Constr. Co., 532 Davidson Bldg., Sioux City. About $1,000,000.

Buildings

PROPOSED WORK

Me., Augusta—Hospital—H. S. Coombs, archt., 11 Lisbon St., Lewiston, soon lets contract building 3 story, brick and steel, concrete foundation, at State Hospital, here. About $100,000.

N. H., Manchester—Theatre—Desmond & Lord, archts., 15 Beacon St., Boston, soon let contract building 2 story, 100 x 160 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on Amherst St., for Capitol Amusement Co. About $200,000.

Mass., Allston (Boston P. O.)—Sales—Tuck & Gilman, archts. and engrs., 34 School St., Boston, soon let contract building 2 story, 75 x 200 ft., rein.con. and steel, rein.-con. flooring, concrete foundation, on Fordham Rd., for Tuck, Gilman & Sneider, c/o architects. About $175,000.

Mass., Amherst—Club—Phi Kappa Psi Fraternity, c/o Putnam & Cox, archts., 114 State St., Boston, having plans prepared for large brick, concrete and steel, on campus.

Mass., Boston—Bathhouse, etc.—Park and Recreation Dept. soon receives bids building 1 story, 106 x 120 ft., bathhouse and headhouse, at Marine Park. About $150,000. Haven & Hoyt, 220 Devonshire St., archts. Noted June 24.

Mass., Boston—Club—Boston & Maine R.R., North Sta., soon lets contract building 6 story, 125 x 135 ft., brick and rein.-con., rein.-con flooring, concrete foundation. About $500,000. Private plans. Noted April 15.

Mass. ,Boston—Theatre—Mowl & Rand, archts., 50 Bromfield St., soon let contract converting store and office building on Washington and Essex Sts., into theatre, brick, concrete and steel, rein.-con. flooring, for Washington-Essex Bldg. Trustees, 723 Scollay Bldg. About $1,500,000. Noted April 8.

Mass., Brookline (Boston P. O.)—Hospital—H. F. Kellogg, archt., 93 Federal St., Boston, soon lets contract building 3 story, 80 x 130 ft., brick, concrete and steel, rein.-con. flooring, concrete foundation, on Pond Ave., for Hospital Corp., c/o architect. About $150,000. Noted May 13.

Mass., Greenfield—Recreation—Greenfield Tap & Die Corp. soon lets contract building 3 story, brick and concrete, concrete foundation. About $100,000. Harris & Richards, Drexel Bldg., Phila., archts.

Mass., Leominster—Hospital—Kendall, Taylor & Co., archts., 93 Federal St., Bos-

Buildings (Continued)

ton soon let contract building 3 story, brick, concrete and steel, rein.-con. flooring, concrete foundation, on North Main St., for Leominster Hospital. About $150,000. Noted May 27.

Mass., Springfield — Church — Emanuel Baptist Society, 33 Lyman St., plans to build brick and stone, on White St. and Sumner Ave. About $150,000. W. E. Truesdell, chn. Architect not selected.

Mass., Worcester—Housing—H. B. Peek Co., 1041 Little Bldg., Boston, having plans prepared by McLaughlin & Burr, archts., 88 Tremont St., Boston, for 2 story, brick and frame houses for workmen, concrete foundations, here. About $1,500,000.

Conn., Waterbury—Church—O'Connell & Shaw, archts., 18 Boylston St., Boston, soon let contract building 1 story, brick and steel, concrete or rock foundation, on Southmayo Rd., for St. Peter and Paul Roman Catholic Society, 78 Scoville St. About $100,000. T. P. Mulcahy, pastor. Noted May 6.

Conn., Westville (New Haven P. O.)—Church—A. W. Boylan, archt., 185 Church St., New Haven, soon lets contract building 1 story, stone and steel, concrete foundation, on Marvel Rd. and West Elm St., for St. James Church Society. J. F. Sexton, pastor.

N. J., New Brunswick—Theatre—H. Rosensohn, archt., 188 Market St., Newark, receives bids about July 20, building 1 story, 98 x 230 ft., brick and terra cotta, for A. Shusterman, c/o architect. Cost to exceed $100,000. Noted June 10.

Pa., Altoona — Gymnasium — Altoona Gymnasium Co. receives bids in August, building 2 story, 80 x 130 ft., limestone, granite and brick, rock foundation, on Lexington Ave. and 9th St. About $200,000. E. C. Broomer, pres. Jallade, Lindsay & Warren, 37 Liberty St., New York City, archts.

D. C., Washington — Hospital — Dist. Comrs. soon receive bids building 2 story, 300 x 400 ft. Psychopathic Ward of Gallinger Hospital, brick, concrete and stone.

N. C., Greensboro—Synagogue—H. Cone, chn. Bldg. Com., Proximity Mills, and others having plans prepared for synagogue on Waiman St. About $100,000. Architect's name withheld.

Ala., Birmingham — Fire Station — City opens bids about July 22, building 2 story, 50 x 165 ft., on 6th Ave. between 19th and 20th Sts. About $100,000. D. O. Whilldin, Title Bldg., archt.

O., Cleveland—Bank and Office—Citizens Savings & Trust Co., East 9th St. and Euclid Ave., having plans prepared by Walker & Weeks, archts., 1900 Euclid Ave., for 10 story, 80 x 150 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 101st St. and Euclid Ave. About $500,000. A. Smith, vice-pres.

O., Cleveland — Commercial — Colonade Co., c/o Howell & Thomas, archts., 4500 Euclid Ave., soon lets contract building 2 story, 69 x 182 ft., brick, steel and terra cotta, brick foundation, on East 107th St. and Euclid Ave. About $100,000.

Mich., Port Huron—City Hall—City and St. Clair c/o A. E. Stevenson, plans to build 3 story, rein.-con. and brick addition, rein.-con. flooring, concrete foundation, on Huron Ave. About $320,000. Architect not selected.

Ill., Chicago—Temple—Chicago Northern Masonic Assn., c/o F. M. Glennon, 626 South State St., had plans prepared by Hyde & Brown, archts., 8 South Dearborn St., for 2 story, 150 x 150 ft. tile, brick and terra cotta, concrete foundation, on Winthrop Ave. and Argyle St. About $300,000.

Ill., Chicago—Theatre—M. Goldberg, 5236 Harper Ave., having plans prepared by Z. E. Smith, archt., 305 East 55th St., altering and building 1 story, 135 x 150 ft. rein.-con. and brick addition, rein.-con. flooring, concrete foundation. About $350,000.

Wis., Fond du Lac—Sanatorium—Fond du Lac Co., (Fond du Lac) Dodge Co., (Juneau) and Washington Co., (West Bend) having plans prepared by J. E. Hennen, archt., 74 South Main St., for tri-county sanatorium, here. About $300,000.

Ia., Ottumwa—High School—Bd. Educ. had plans prepared by Croft & Boerner, archts., 833 Palace Bldg., Minneapolis, and receives bids about Oct. 15, building 3 story, rein.-con. and brick high school, to include study room, laboratories, etc. About $700,000. J. A. Wagner, secy. Noted Feb. 12.

Ia., Webster City — Hotel and Stores — Webster City Stock Co. having plans prepared by Proudfoot, Bird & Rawson, archts., 810 Hubbell Bldg., Des Moines, for 6 story, brick, rein.-con. and steel. About $300,000. N. Teget, secy.

Minn., Minneapolis—Church—First Methodist Episcopal Church, had plans prepared by O. N. Newstrom and M. C. Linquist, archts., 917 Andrus Bldg., for 2 story, 66 x 105 ft. rein.-con., brick and tile on 12th Ave. S. E. and 4th St. About $100,000. I. R. Beiler, 906 South East 5th St., pastor.

Minn., Minneapolis — High School — Bd. Educ. having plans prepared by E. H. Enger, archt., c/o Bd. Educ., for 3 story brick, rein.-con. and stone, on 30th Ave. N., and Emerson Ave. About $600,000.

Minn., Minneapolis—School—Bd. Educ. opens bids about Aug. 1, building 2 story, 85 x 100 ft., brick and tile, on 46th St. between 4th and 5th Aves. S. About $130,000. E. H. Enger, c/o Bd. Educ., archt.

Minn., Renville—High and Grade School—Bd. Educ. receives bids about Aug. 15, building 2 story, 146 x 273 ft. rein.-con. and brick. About $280,000. Croft & Boerner, 833 Palace Bldg., Minneapolis, archts.

Neb., Lincoln—Capitol—State Legislature having sketches made by B. G. Goodhue, archt. and engr., 2 West 47th St., New York City, for 5 or 6 story brick, steel and stone, concrete foundation. About $7,000,000.

BIDS DESIRED

Conn., Wallingford—Armory—Until July 24, by Connecticut Military Emergency Bd., building 3 story, 38 x 75 ft. armory and 1 story, 75 x 150 ft. drill shed, brick, concrete and steel, rein.-con. flooring, concrete foundations, on North Main St., here. About $100,000. W. P. Crabtree, 272 Main St., New Britain, archt. Noted July 8.

Conn., West Hartford—Church—E. M. Stone, archt., 327 Trumbull St., Hartford, receiving bids building 1 story, brick and steel, concrete foundation, on Boulevard and Lockwood Terrace, for Swedish Methodist Episcopal Society. About $100,000. E. W. Chellgre, pastor. Noted May 20.

N. J., Toms River—Jail—Until July 27, by Bd. Freeholders Ocean Co., building jail. D. O. Parker, clk.; advertised in this issue.

Pa., Jeannette—High School—Until July 26, by Bd. Educ., building 2 story, 125 x 225 ft., brick and steel, rein.-con. flooring. About $200,000. W. J. Peoples, Monongahela Bank Bldg., Pittsburgh, archt.

Pa., Pittsburgh—Office—Philadelphia Co., 435 6th St., receiving bids building 4 and 5 story, 60 x 141 ft. addition, brick, steel and terra cotta. About $200,000. Private plans.

O., Cleveland—School—Until July 20, by Church of the Holy Family, c/o J. F. Kresina, 12900 Angelus Ave., building 3 story, 16 room, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on East 131st St. and Chapelside Ave. About $100,000. W. Koehl, Park Bldg., archt.

O., Youngstown—Hospital—Until July 18, by H. Church, city solicitor, building 3 story municipal hospital, on Homestead and Indianola Aves. About $250,000. C. F. Owsley, Mahoning Bank Bldg., archt.

Ill., Chicago—Temple—Until Aug. 10, by Hyde & Brown, archts., 8 South Dearborn St., building 3 story, 125 x 200 ft. rein.-con., brick and terra cotta, rein.-con. flooring, concrete foundation, on Cottage Grove Ave. and 61st St., for Midway Masonic Temple Assn., c/o architects. About $750,000.

Ia., McCallsburg—School—Until Aug. 3, by Bd. Educ., building 2 story, brick, rein.-con. and steel. About $130,000. W. H. Reid, secy. W. L. Pedicord, Iowa Falls, archt.

Kan., Liberal—High School—Until July 19, by Bd. Educ., building 3 story, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $170,000. Smith, Beattie & Co., Nelson Bldg., Hutchinson, archts. Noted Feb. 26.

N. S., Halifax—Hospital—Until July 29, by Com. of Anti-Tuberculosis League, building 3 story, 80 x 146 ft., with 90 ft. wings, brick, rein.-con. flooring, concrete foundation, on Morris St. About $150,000. H. E. Gates, Halifax, archt.

N. S., North Sydney—Hall—Until July 23, by M. McLean, town clk., building 2½ story, 35 x 50 ft., concrete and brick, rein.-con. flooring on Main St. About $122,000. J. L. Northam, Sydney, archt.

Ont., Pembroke—School—Until July 19, by Bd. Educ., building 8 room, rein.-con. and brick, rein.-con. flooring, in East Ward. About $175,000. W. C. Keighley, Grand Trunk Bldg., archt.

Man., Miniota—School—Until July 31, by School Trustees, building 3 story, concrete, brick and steel. About $110,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., Portland**—High School—City let contract building 3 story, brick addition, rein.-con. flooring, on Cumberland St., to F. W. Cunningham & Son, 430 Congress St. About $155,000.

Mass., Belchertown—Dormitory, etc.—Commonwealth of Massachusetts., Comm. on Mental Diseases, 36 State House, Boston, received bids constructing 2 story, 90 x 112 ft. dormitory and 2 story custodial building, brick and rein.-con., rein-con. flooring, concrete foundations, at State Hospital here (general contract), from M. I. O'Connor, 86 Main St., Northampton, $265,000; heating, from Holyoke Valves & Hydrant Co., Race St., Holyoke, $21,483; plumbing, from E. C. Kelley, 195 Center St., Roxbury, $20,505. Noted June 24.

★**Mass., Boston**—Auditorium—Now Boston Arena Co., c/o Funk & Wilcox, archts., 294 Washington St., let contract building 1 and 2 story, rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on St. Botolph St., to W. M. Bailey Co., 88 Broad St. About $800,000. Noted June 17.

★**Mass., Brookline**—Sales, etc.—C. Allbright, archt., 6 Beacon St., Boston, let contract to F. J. Van Etten Co., 153 Milk St., Boston, constructing 2 story, 100 x 270 ft., brick and limestone sales building and garage, rein.-con. flooring, concrete foundation, on Commonwealth Ave. and St. Paul St., here, for D. Cerussi, 15 Exchange St., Boston. About $200,000. Noted July 1.

★**Mass., Clinton** — Housing — Lancaster Mills let contract building several 2 story, timber houses for workmen, concrete foundations, to General Bldg. Co., 522 Harrison Ave., Boston. About $125,000. Noted May 13.

★**Mass., Webster**—Library—Trustees C. C. Corbett Library let contract building 1 story, brick, steel and stone, concrete foundation, on Main St., to F. G. Fearon Co., 280 Madison Ave., New York City. About $100,000. Noted May 27.

★**Conn., Bridgeport**—Theatres—S. Z. Poli Co., 24 Church St., New Haven, will build two 221 x 223 ft., brick, concrete and steel, rein.-con. flooring, concrete foundations, on Main, Congress and Arch Sts., here. About $1,000,000. Work will be done by day labor. Noted June 10.

★**Conn., Naugatuck**—Jalade & Lindsey, archts. and engrs., 37 Liberty St., New York City, let contract to Tidewater Bldg. Co., 16 East 33rd St., New York City, constructing 3 story, brick, concrete, steel and stone building, rein.-con. flooring, brick foundation, on Church St., for Y. M. C. A., Rockwell Ave. About $225,000. Noted May 13.

★**N. Y., Buffalo**—Community House—Lafayette Ave. Presbyterian Church, Lafayette Ave. and Howard St. let contract building 3 story, brick, concrete ad steel, to R. E. Williams, Iroquois Bldg. About $100,000.

★**N. Y., Ossining**—Seminary — Catholic Foreign Mission Society - Pines Bridge Rd., let contract building 4 story, brick, steel and stone, brick foundation, here, to W. H. Fissel, 1328 Bway., New York City. About $100,000.

★**Pa., Allentown** — Bank — Merchant's Natl. Bank, South Centre Sq., let contract building 1 story, 50 x 100 ft., brick and stone, brick foundation, on 7th and Hamilton Sts., to Griswold Co., 101 Park Ave., New York City. About $100,000.

★**Pa., Phila.**—Office, etc.—W. F. Read & Sons, 209 Chestnut St., let contract constructing 4 story, 50 x 75 ft. office building and warehouse, rein.-con. and brick, on Snyder and Saminger Sts., to W. Newberg, Otis Bldg. About $100,000.

★**Pa., Phila.**—Sales and Service—Diesinger Motors Co., 1827 Chestnut St. let contract building 2 story, 70 x 120 ft., concrete and stone, on 22nd and Chestnut Sts., to J. Schnabel, Denckla Bldg. Noted June 3.

★**Md., Baltimore**—Theatre—L. H. Homan, c/o Palmore & Homan, 424 East Lexington St., let contract building 1 and 2 story, 80 x 175 ft., concrete and brick, concrete foundation, on Harford Ave. About $100,000.

D. C., Washington—School—Dist. Comrs. received bids building addition to school in Petworth, from P. F. Gormley, Union Trust Bldg., $219,481; F. L. Wagner, 1413 H St. N. W., $247,266; W. E. Mooney, Evans Bldg., $226,207.

★**N. C., Durham**—Office—North Carolina Mutual Life Insurance Co. let contract building 6 story, to H. L. Smith, Durham. About $200,000; cost plus percentage basis.

★**Ala., Mobile**—Office—Van Antwerp Drug Co., Van Antwerp Bldg., let contract razing old buildings and constructing 15 story, 77 x 150 ft., brick, mass and rein.-con., Indiana limestone, terra cotta and steel, rein.-con. flooring, on Dauphin and Conception Sts., to Owens Constr. Co., South Water St. About $500,000.

Buildings (Continued)

★**O., Alliance**—High School—Bd. Educ. let general contract building 2 wings of new high school, to Kratt & Sons, Lorain, $110,000; heating and plumbing, to G. W. Galt, Arch Ave. and Columbia St., $17,800.

★**Ill., Belleville**—Theatre and Office—Arcade Theatre Co. let contract building 3 story, 80 x 175 ft. concrete, brick and steel, on Main and High Sts., to Mullen Bldg. Corp., Belleville. About $250,000.

★**Minn., St. Paul**—Hospital—City and Ramsey Co. let contract constructing addition to administration building, also 3 story children's building, on Jefferson Ave. and Colborne St., to F. Norlander, 408 Metropolitan Bank Bldg. About $150,000. Noted April 8.

★**Kan., Wichita**—Bank—First Natl. Bank let contract building 12 story, 94 x 135 ft., brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, to G. H. Siedhoff Constr. Co., 121 North Market St. About $1,500,000; cost plus percentage basis.

★**Neb., Lincoln**—Bd. Educ. let contract building Prescott School, 2 story, 140 x 225 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to Oleson Const. Co., Lincoln. About $375,000.

★**Mo., St. Louis**—Bank—1st Natl. Bank, Bway. and Locust St., let general contract building 6 story, 50 x 150 ft., rein.-con., brick and steel, concrete flooring, at 307-9 Bway., to Westlake Constr. Co., 615 Locust St. About $250,000.

★**Mo., St. Louis**—Theatre—Audrey Realty Co., Wainwright Bldg., let contract building 2 story, 35 x 185 ft., rein.-con. and brick, on 6th and Chestnut Sts., to Woerman Constr. Co., Syndicate Trust Bldg. About $100,000.

★**Ont., London**—Office—London & Western Trusts Co., 382 Richmond St., let contract building 4 story, 80 x 100 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, to W. F. Sparling Co., Bay St., Toronto. About $100,000.

★**Ont., London**—School—Bd. Educ. let contract building 2 story, 75 x 90 ft., brick, stone foundation, on Hamilton Rd., to J. Futherbough, 272 Regent St. About $100,000.

Federal Government Work

Order 166—Bureau Yards & Docks, Navy Dept., Wash., D. C.—It is directed that hereafter no estimated cost to be given or published on prospective projects, either prior to or during period of advertisement.

PROPOSED WORK

N. H., Portsmouth—Boiler and Stokers—Spec. 4124—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids removing and re-erecting, here; $10 deposit required for plans and spec. Noted Jan. 15.

D. C., Wash.—Boiler and Accessories—Spec. 4242—Bureau Yards & Docks, Navy Dept., soon receives bids building, here; $10 deposit required for plans and spec. Noted June 24.

Va., Hampton Roads—Paint and Oil Storehouse—Spec. 4221—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids building, here; $10 deposit required for plans and spec. Noted June 10.

Neb., Buffalo—Irrigation—Federal Government plans to make surveys for Kearney-North Platte Irrigation Project. About $8,000,000. J. M. Noff, Lexington, interested.

Mo., St. Louis—Earthwork—Mississippi River Comn., 1511 International Life Bldg., received no bids June 25, building 175,000 cu.yd. earthwork by hydraulic method, in Sny Island Levee D. D., Ill. Noted May 27.

Cal., Mare Island—Heating System—Spec. 4189—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids installing, at structural shop, here; $10 deposit required for plans and spec. Noted May 13.

Cal., San Diego—Storehouse—Spec. 4157—Bureau Yards & Docks, Navy Dept., Wash., D. C., received no bids July 7, building Marine Barracks, here. Noted June 24.

BIDS DESIRED

Me., Augusta—Remodeling Post Office and Court House—Until Aug. 4, by Treas. Dept., Wash., D. C., remodeling, here. J. A. Wetmore, superv. archt.

D. C., Wash.—Electric Traveling Cranes—Spec. 4239—Until July 28, by Bureau Yards & Docks, Navy Dept., furnishing and installing over shipbuilding slips, Philadelphia, New York and Norfolk, Va., Navy Yards., $10 deposit required for plans and spec.; advertised in this issue. Noted June 24.

N. Y., New York—Gasoline Storage Shed—Spec. 4224—Until July 21, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here; $10 deposit required for plans and spec. Noted June 10.

Va., Hampton Roads—Electric Underground Distributing System—Spec. 4240—Until Aug. 4, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing, here; $10 deposit required for plans and spec.; advertised in this issue. Noted June 24.

Neb., Omaha—Remodeling Post Office—Until July 23, by Treas. Dept., Wash., D. C., remodeling, here. J. A. Wetmore, superv. archt.

Tex., Del Rio—Sewage Ejector—Until July 22, by Treas. Dept., Wash., D. C., installing in U. S. Post Office and Courthouse, here. J. A. Wetmore, superv. archt.

Idaho, Caldwell—Canal—Until Aug. 24, by U. S. Recl. Serv., Boise, building 16 mi. main canal, near here, involving 228,000 cu.yd. excav. M. Bien, acting dir.; advertised in this issue.

Ariz., Florence—Diversion Dam—Until Aug. 16, at office of H. V. Clotts, superv. engr., U. S. Indian Serv., 528 Federal Bldg., Los Angeles, building rein.-con. on Gila River, 10 mi. from here; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Buffalo**—Excavating—U. S. Engr. Office, Federal Bldg., let contract excavating in Niagara River, Mich., involving 422,050 cu.yd. sand gravel and boulders and 100,000 cu.yd. overcasting material, to Dunbar & Sullivan Dredging Co., 2211 Dime Bank Bldg., Detroit, $245,245.

D. C., Wash.—Altering Building—Treas. Dept. received bids July 6, from W. E. Mooney, Evans Bldg., (1) $35,568 (90 days), (2) $37,000 (95 days), (3) $1,173 (90 days); Skinker & Garrett, 1416 F St., N. W., (1) $30,287 (60 days), (3) $17,000 (60 days); J. Trout Constr. Co., Wash., (2) $18,934 (120 days), (3) $19,803; H. C. Ball Constr. Co., Wash., (1) $22,497 (60 days), (2) $23,297 (65 days), (3) $110 (60 days). Noted July 1.

D. C., Wash.—Quarters—Spec. 4195—Bureau Yards & Docks, Navy Dept., received bids June 16, building at Lighthouse Depot Grounds, at Buffalo, Detroit and Milwaukee, (1) work complete, from W. F. Martens, Cutler Bldg., Rochester, N. Y., (1) $49,000 (120 days), (2), $12,995 (110 days), (3) $14,885 (120 days), (4) $13,855 (110 days), (5) $11,880 (100 days), (1a) $48,000 (100 days), (2a) $12,795 (108 days), (3a) $14,685 (118 days), (4a) $13,655 (108 days), (5a) $11,680 (100 days); Inca Constr. Corp., Marine Trust Bldg., Buffalo, (5) $10,500 (120 days); King Lumber Co., Charlottesville, Va., (1) $104,000, (2) $26,000, (3) (4) and (5) $26,000 each, (1a) $104,000, (2a) (3a) (4a) and (5a) $26,000 each, all (120 days). Noted June 10 under "Buffalo" and June 24 under "Milwaukee and Detroit".

★**D. C., Wash.**—Watertight Lighting Fixtures—U. S. Engr. Office, War Dept., let contract installing, to F. H. Lovell & Co.,

Va., Hampton Roads—Sewers and Watermains—Spec. 4178—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 7, laying sewers, drains and watermains at Naval Operating Base, here, (1) work complete, from B. Pizzimento, Hyattsville, Md., (1) $47,775 (140 days), (2) $100, (3) $5, (4) $10, (5) $20; Williams Curriden Contg. Co., Norfolk, (1) $48,000 (120 days), (2) $72, (3) $4, (4 $1, (5) $1; H. E. Crook Co., 28 Light St., Baltimore, Md., (1) 59,860 (140 days), (2) $190, (3) $4.50, (4) $6.25, (5) $18.75, (6) $7,800, (7) $4,220. Noted June 24.

★**Va., Langley Field**—Various Buildings—Constr. Div., Wash., D. C., let contract constructing here, to P. F. Gormley, Union Trust Bldg., Wash., D. C. About $600,000.

Va., Quantico—Incinerator—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids July 7, building at Marine Barracks, here, (1) work complete, from McLean Constr. Co., 1415 Fidelity Bldg., Baltimore, Md., (1) $108,755 (210 days), (1a) $28,345, (1b) $23,580, (1c) $24,850, (1d) $16,200, (1e) $2,945, (1f) $1,365, (1g) $6,585, (1h) $4,885, (2) $1,000, deduct $800, (3) add $500; King Lumber Co., Charlottesville, (1) $112,428, (1a) $23,148, (1b) $26,400, (1c) $26,400, (1d) $18,584, (1e) $4,230, (1f) $1,278, (1g) $8,906, (1h) $3,482, (2) deduct $800, (3) add $500; Hughes Foulkrod Co., 1406 Commonwealth Bldg., Phila., (1a) $29,400, (1b) $34,330, (1c) $31,121, (1d) $12,487, (1e) $4,457, (1f) $1,242, (1g) $4,280, (1h) $3,724, (2) $806, (3) $1,670. Noted June 24.

Wash., Seattle—Dredging—U. S. Engr. Office, Burke Bldg., received only bid dredging harbor at Port Gamble, involving 100,000 cu.yd. earth fill, from Puget Sound Bridge & Dredging Co., Central Bldg., $32,500. Noted Jan. 8.

Cal., San Diego—Refrigerating Plant Equipment—Spec. 4193—Bureau Yards & Docks, Navy Dept., Wash., D. C., received only bid June 30, furnishing and installing at Naval Base, Marine Barracks, here, (1) work complete, from Kroeschell Bros. Co., 460 North Perry St., Chicago, (1) no bid, (2) add $85, (3) deduct $575, (5) $31,350. Noted June 24.

Miscellaneous

PROPOSED WORK

Excavators—Syracuse, N. Y.—Onondaga Co. plans to purchase 2 Keystone excavators. About $13,000. F. N. Wood, purch. agt.

Va., Charlottesville—See "Streets and Roads."

Electric Power Line—Breeze, Ill.—City plans to build 4 mi. electric power line from here to Ariston including transformer stations, poles and wires. Fuller & Beard, Chemical Bldg., St. Louis, Mo., engrs.

Dams—Polson, Mont.—Rocky Mountain Power Co., Butte, plans to build 5 dams in Flathead River between northeast corner of Bison Range and point where river enters lake, near there.

Dike—St. Louis, Mo.—Bd. Pub. Serv. received no bids June 22, building Homers Dike at Chain of Rocks Pumping Sta., 1,575 ft. long, rock and timber. E. E. Wall, City Hall, engr. Noted May 13.

Incline Skip Hoist, Crusher, Bunker, etc.—Spiketon, Wash.—Pierce County Coal Co., preparing plans for new incline skip hoist tipple, screens and crusher in unit 1, shaking sizing screen and washers in unit 2, and track bunkers in unit 3. G. H. Sharpe, genl. mgr.

BIDS DESIRED

Highway Materials—New York, N. Y.—Until July 19, by Bd. Purchase, 526 Municipal Bldg., furnishing and delivering highway materials to Dept. of Parks, Manhattan and Richmond Boros. G. A. Whalen, comr. Plant and Structures.

Pumps—Summit, N. J.—Until July 20, by Common Council, furnishing two 2,000,000 gal. and one 1,000,000 gal. centrifulgal sewage pumps with motors. F. C. Kentz, clk.; advertised in this issue.

Curbstone—Montreal, Que.—Until July 20, by Administrative Comn., furnishing 14,721 lin.ft. straight lime stone, 1,330 lin.ft. curve granite, and 1,955 lin.ft. straight granite curbstone.

Incinerator—Chatham, Ont.—Until July 23, by city building incinerator. About $40,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Dams—Pittsfield, N. H.**—Haven & Crosby, engrs., 40 Court St., Boston, let contract to H. P. Cummings Constr. Co., Ware, Mass., building 2 rein.-con. dams, 85 ft. ling, 13 ft. high and 160 ft. long, 21 ft. high. About $30,000. Owner's name withheld.

★**Retaining Wall—Holyoke, Mass.**—Farr Alpaca Co., Jackson St., let contract building 300 ft., rein.-con. retaining wall, to S. M. Green Co., 293 Bridge St., Springfield. About $30,000.

Pumps—Cleveland, O.—City received bids July 2, furnishing and installing two 8,000,000 gal. and one 4,000,000 gal. motor driven vertical centrifugal pumps, etc., from Dravo-Doyle Co., Diamond Bank Bldg., Pittsburgh, Pa., $20,730, J. Skeldon Eng. Co., 242 Water St., Toledo, $27,620. Noted June 24.

Steam Heating and Ventilating System—Cleveland, O.—Bd. Educ., East 6th St. and Rockwell Ave., received bids installing steam heating and ventilating system in Miles Standish School, East 92nd St. and Parkgate Ave., from Weiss Plumbing Co., 1111 Bolivar Rd., $140,688, Poplowsky Plumbing Co., East 40th St. and Central Ave., $152,230.

★**Water Pipe—Detroit, Mich.**—City let contracts to Lynchburg Fdry. Co., People's Natl. Bank Bldg., Lynchburg, Va., furnishing 1,714 tons 8 in. Class "B" c.i. pipe, $131,121, 857 ton 16 in. Class "C," $65,560, 429 tons 24 in. Class "C," $32,389; to Amer. Cast Iron Pipe Co., 38 South Dearborn St., Chicago, Ill., 2,286 tons 8 in. Class "B," $175,108, 1,143 tons 16 in. Class "C," $87,554, 571 tons 24 in. Class "C," $43,168. Noted July 8.

★**Street Lighting System—Green Bay, Wis.**—City let contract furnishing ornamental street lighting system, to E. A. Brown Electric Co., 715 Minnesota St., Kansas City, Kan. About $39,000. Noted April 1.

★**Cleaning Water Mains—St. Louis, Mo.**—City let contract excavating, examining, inspecting and cleaning 250,000 lin.ft. 12-36 in. c.i. water mains, to Natl. Water Main Cleaning Co., 50 Church St., New York City, $74,872. Noted June 3.

OFFICIAL PROPOSALS

Bids: Aug. 5

Construction of Pavement

Fort Myers, Fla.

Sealed proposals directed to Jno. W. Owens, City Clerk of the City of Fort Myers, Fla., will be received at the City Clerk's Office until 5 p.m., Aug. 5, 1920, and publicly opened that same evening at a regular meeting of the City Council, for the grading, furnishing all labor and materials required to construct the following pavements:

Oak St. from the A. C. L. R.R. to W. line of Hendry St., approximately 2,607 sq.yds.

Hendry St. from the S. line of Oak St. to the S. line of First St., approximately 1,156 sq.yds.

Monroe St. from N. line of Oak St. to the N. line of First St., approximately 1,106 sq.yds.

First St. from the east line of Monroe St. to W. line Evans Ave., approximately 16,007 sq.yds., a total of approximately 20,876 sq.yds.

Alternate bids will be received on Cement Concrete, Asphaltic Concrete, Sheet Asphalt, Asphaltic Block, and Vitrified brick. The Contractor may bid on any or all of these different surfaces.

Certified check of $1,500.00 must accompany each bid or group of bids.

Specifications, proposal blanks, form of contract and detailed information concerning the conditions and manner of submitting bids can be obtained by applying to J. A. Davison & Son, Engineers for Fort Myers, Fla.; a deposit of $5.00 will be required for each complete set of specifications sent out; this amount will be refunded upon the return of the specifications properly filled in by actual bidders.

Payments for work done will be made in cash monthly on estimates by the Engineer. No maintenance bond required.

Detailed plans may be seen at the office of the Engineer.

The Mayor and Council reserve the right to reject any or all bids and to award the contract as is deemed to the best interests of the City of Fort Myers.

Bidders will be notified as to results of the letting within 48 hours of the opening of the bids.

Signed: J. A. DAVISON & SON,
Attest: City Engineers.

Bids: July 22.

Road Work

Jamesburg, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of Middlesex County, N. J., for the improvement of Jamesburg-Helmetta Road, in the Borough of Jamesburg and Township of Monroe, in the County of Middlesex, with a concrete pavement; estimated amount of surface pavement required is 14,162 square yards, and opened and read in public at the County Record Building, New Brunswick, N. J., on July 22, 1920, at 2:30 p.m.

Drawings, specifications and forms of bid, contract and bond for the proposed work, prepared by Alvin B. Fox, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said Engineer at 175 Smith Street, Perth Amboy, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the specifications and blue prints of the drawings by the engineer on proper notice and payment of cost of preparation. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidder and name of road on the outside, addressed to the Board of Chosen Freeholders of Middlesex County, N. J., and must be accompanied by a certificate of surety company agreeing to furnish bond and a certified check for not less than $1,000.00, and be delivered at the plae and on the hour above named. The standard proposal form is attached to the specifications, copies of which will be furnished on application to engineer.

By order of the Board of Chosen Freeholders of Middlesex County, New Jersey.
THOMAS J. MULVIHILL, Clerk.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

Official Proposals reaching our office in first mail Wednesday morning (9 o'clock) can usually be published in the issue out the next day. Special price for Official Proposals, 40 cents a line.

Bids: July 20.

Construction of Barge Terminals

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT OF PUBLIC WORKS

Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until 12 o'clock noon of Tuesday, July 20, 1920, at which place and hour they will be publicly opened and read, for the construction of a Barge Canal terminals pursuant to the provisions of Chapter 746 of the Laws of 1911, and of the acts amendatory thereof, as follows:

TERMINAL CONTRACT No. 224

For constructing a terminal freighthouse at Mott Haven, Borough of Bronx, New York City.

Contract plans, sheets 1 to 13, inclusive.

Plans may be seen and detailed specifications, engineer's estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y., at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y., at the office of the Assistant Superintendent of Public Works for the Western Division at Rochester, N. Y., at the canal office, Spaulding's Exchange, Buffalo, N. Y., and at the office of the Superintendent of Public Works, Terminal Warehouse, Pier 6, East River, New York City.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the Superintendent of Public Works for five per centum (5 per cent) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per cent (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work, and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

EDWARD S. WALSH,
Superintendent of Public Works.
Albany, June 16, 1920.

Bids: July 23.

Sale of Water-Works Pump

Trenton, N. J.

Sealed proposals will be received by the Board of Commissioners of the City of Trenton, N. J., at their meeting to be held on July 23, 1920, at 2 p.m., daylight saving time, for the purchase from the City of its 10,000,000 gallon, triple expansion, vertical type, E. P. Allis steam pump, which has become too small for the City.

This pump was placed in operation in 1893 but has acted for the past 12 years only as a reserve unit. It was designed for 110 pounds of steam, pumping against a head of 125 feet. The present head is 155 feet, steam pressure 135 pounds.

The pump is in excellent condition and is offered for sale as it stands. Successful bidder to remove it from its present site within 60 days after the award of the contract by the Board of Commissioners.

Each proposal must be accompanied by a certified check in the sum of $500, drawn upon a reliable national bank or trust company to the order of the City Treasurer, which check shall be forfeited to the City of Trenton as fixed and liquidated damages, and not a penalty, in case the bidder to whom the contract is awarded fails or neglects to enter into contract with the City.

Said Board of Commissioners reserves the right to reject any or all proposals.

LEON D. HIRSCH, City Clerk.

Bids: July 19.

Street Paving, Sewerage and Water-Works

Okeechobee, Fla.

Sealed proposals will be received by the City Council of the City of Okeechobee, Florida, at the office of the City Clerk of the said City, at or before 10 o'clock A.M., on the 19th day of July, A.D. 1920, for the following purposes:

For the construction of approximately ten miles of hard surfaced streets, a system of water works and construction of Sewerage system according to plans and specifications in office of City Clerk. Copies of specifications may be obtained at the office of W. B. Clay, City Engineer.

D. R. McNEILL,
President of Council.
W. W. DUNNICLIFF, City Clerk.